

Diving Equipment Authorized for Navy Use

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Diving Equipment Authorized for U.S. Navy Use (ANU) Disclaimer

The presence of this list on the United States Navy's Supervisor of Salvage and Diving website on the Internet is to facilitate the flow of immediate and timely information, world-wide, to all United States Navy diving activities, wherever they may be so situated.

The compilation of commercial items in this list should not be construed as an official United States Navy endorsement of any, or all, of these products. Instead, this list is merely citing those items authorized for United States Navy usage. It is published to ensure uniformity and enhanced workings of operations in the United States Navy Diving Commands. The United States Navy does not render any endorsement, certification, warranty, recommendation or opinion as to the manufacture or usage of these products, nor do we guarantee this list will not undergo periodic changes reflective of the operational, budgetary and procurement requirements of the United States Navy.

The United States Navy will not accept any liability for any loss, damage or injury resulting from the use of the information contained in this list; and, that whatever use the recipient makes of the information is done so at his own risk. Moreover, the recipient will hold harmless the United States Navy, its Officers and personnel, employees and agents against any and all claims arising from any use of the information contained within this document.

**Director of Ocean Engineering
Supervisor of Salvage and Diving
SEA 00C**



**DIVING EQUIPMENT
AUTHORIZED FOR
U.S. NAVY USE**

15 May 1997

10560
Ser 00C/3112
15 May 97

Subj: DIVING EQUIPMENT AUTHORIZED FOR U.S. NAVY USE

Ref: (a) NAVSEA 0994-LP-001-9010, U.S. Navy Diving Manual
(Volume 1, "Air Diving")
(b) NAVSEA 0994-LP-001-9020, U.S. Navy Diving Manual
(Volume 2, "Mixed Gas Diving")

Encl: (1) Diving Equipment Authorized for Navy Use Listing
(2) Diving Equipment Authorized for Navy Use Technical
Support

1. Purpose. To promulgate enclosures (1) and (2), defining the list of Diving Equipment Authorized for U.S. Navy Use (ANU), with a listing of technical points of contacts for diving equipment.

2. Cancellation. NAVSEAINST 10560.2C of 19 September 1994.

3. Background. OPNAVINST 3150.27 (series) requires Commander, Naval Sea Systems Command (NAVSEA 00C) to prepare and publish a list of approved diving equipment.

4. Definition. ANU denotes selected diving equipment, tools and accessories which have undergone design safety reviews, testing and evaluation to ensure diver safety and acceptability. The ANU process addresses three basic categories of equipment:

Category I. Life support diving equipment (e.g., regulators, compressors).

Category II. Non-life support underwater equipment which is potentially hazardous to the diver (e.g., explosively-actuated tools, surface-powered electrical tools, hydraulic chain saws).

Category III. Non-life support accessory equipment which enhances mission accomplishment but is not considered hazardous or essential to safe diving operations. This equipment has been tested or developed by the Navy and in most cases directly supported by the supply system. Other non-supply system supported commercial items are authorized provided they are properly maintained in accordance with the manufacturers requirements.

5. Discussion. Prior to acceptance for use by the U.S. Navy, life support diving equipment must undergo physical and physiological testing and evaluation. This testing and evaluation encompasses the entire range of equipment operation and is conducted under the auspices of the Navy Experimental Diving Unit or other designated testing activity. Potentially hazardous, non-life support equipment, at a minimum, will undergo

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a design safety review, or testing and evaluation, or both as appropriate. NAVSEA 00C will conduct a review of all test results, design studies, and documentation to determine acceptability of the equipment for use by Navy divers. Reliability and maintainability considerations are as important as operability and safety. Additionally, diving accessory items which have been proven safe and operationally adequate are listed as recommended items for procurement (e.g., divers tools that do not pose a hazard, hydraulic and pneumatic power sources for tools, cameras, wet suits, fins, masks). The absence of an item from this list does not prohibit its procurement providing it is similar to other commercially recognized items, poses no safety hazard to divers and is not classified as a category I or II item. Where appropriate, Navy standard stock numbers and specifications for equipment and components are listed in enclosure (1).

6. Scope.

a. This letter applies to all U.S. Navy commands and activities conducting diving operations. Authorized category I life support diving equipment, category II non-life support diving equipment, and category III non-life support diver accessory items are identified in enclosure (1).

b. As stated in paragraph 4, above, enclosure (1) contains a list of selected diving equipment, tools and accessories which have undergone evaluation, thereby ensuring diver safety and acceptability. However, inclusion on this list in no way constitutes a commercial endorsement.

7. Policy.

a. Only diving life support equipment (Category I) listed in enclosure (1) will be procured and used, in accordance with references (a) and (b), by U.S. Navy diving activities, except as noted in paragraph 7d. Certified diver's life support systems, and surface supplied diving systems are not listed in this document. Authorization for Navy use is implicit in their certified status. Class certified UBAs are listed in this document.

b. For electrically (greater than 7.5 VAC or 30 VDC) or explosively actuated equipment, or other non-life support equipment which presents a potential hazard to the diver (Category II), only equipment identified in enclosure (1) will be procured and used by U.S. Navy diving activities.

c. Procurement and use of the specific category III items listed in enclosure (1) is encouraged. However, activities may procure any commercially available equipment similar to that listed as category III. Prior to the purchase of any equipment not specifically listed as Category I or II, or for questions regarding applicability of a particular tool or item, contact the

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Supervisor of Diving, Fleet Liaison Representative (SEA 00C32), or the technical point of contact listed in enclosure (2).

d. The Navy Experimental Diving Unit and other activities, as designated in writing by NAVSEA 00C are authorized to procure and use category I and II equipment not listed in enclosure (1) for the purpose of research, development, testing and evaluation programs.

8. Action. U.S. Navy commands and activities authorized to conduct diving operations will ensure that procurement and use of diving equipment is conducted strictly in accordance with the policy set forth herein.

9. Any questions regarding applicability of a particular tool or equipment item will be directed to the Supervisor of Diving, Fleet Liaison Representative (SEA 00C32) at commercial (703) 607-2766 or DSN 327-2766, or the applicable technical point of contact listed in enclosure (2).

R. S. McCORD
Director of Ocean Engineering
Supervisor of Salvage and Diving

Distribution:
Diving Command Mailing List
00C CD-ROM

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Category I. Life support diving equipment (e.g., regulators, compressors).

Category II. Non-life support underwater equipment which is potentially hazardous to the diver (e.g., explosively-actuated tools, surface-powered electrical tools, hydraulic chain saws).

Category III. Non-life support accessory equipment which enhances mission accomplishment but is not considered hazardous or essential to safe diving operations. This equipment has been tested or developed by the Navy and in most cases directly supported by the supply system. Other non-supply system supported commercial items are authorized provided they are properly maintained in accordance with the manufacturers requirements.

Diving Equipment ANU – Change Summary

The following represents the changes authorized since the release of the 15 May 1997 addition of the ANU. Changes are listed here in bold and italics. Last update 01/13/2000

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.0 BUOYANCY COMPENSATORS

GENERAL NOTE (1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VICE A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. THE U.S. NAVY DIVING MANUAL AND DIVING ADVISORY 99-05 PROVIDE AMPLIFYING INFORMATION.

GENERAL NOTE (2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED.

GENERAL NOTE (3): PART NUMBERS OF DESIGNATION/MODEL REFLECT THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE. PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE ITEM NAME VICE JUST THE ITEM NAME WHEN ORDERING BUOYANCY COMPENSATORS AND LIFE PRESERVERS.

CAT I 1.0.1	BUOYANCY COMPENSATOR COMMERCIAL	AQUALUNG (US DIVERS)	SEAQUEST BLACK DIAMOND PART NO. 3460-XX	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. ADDITIONAL COUNTERWEIGHTS CAN BE ORDERED USING PART NUMBER 3942-24. XX OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.2	BUOYANCY COMPENSATOR COMMERCIAL	SCUBAPRO	SUPERHAWK PART NO. 21.100.X00	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.3	BUOYANCY COMPENSATOR COMMERCIAL	ZEAGLE	RANGER PART NO. 7908RK SIZE	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. THE SIZE WILL VARY, ADD M TO PART NUMBER IF COUNTERWEIGHT ASSEMBLY IS TO BE INCLUDED. ADDITIONAL COUNTERWEIGHT ASSEMBLIES CAN BE ORDERED USING PART NUMBER 8050S (8/26/99)
CAT I 1.0.4	BUOYANCY COMPENSATOR COMMERCIAL	AQUALUNG (US DIVERS)	SEAMASTER PART NO. 7692-X0	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. ADDITIONAL COUNTERWEIGHTS CAN BE ORDERED USING PART NUMBER 3942-24. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.5	BUOYANCY COMPENSATOR COMMERCIAL	INTERNATIONAL DIVERS, INC.	ADVANTAGE PART NO. 15X01M	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.1 LIFE PRESERVERS

GENERAL NOTE (1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VICE A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. THE U.S. NAVY DIVING MANUAL AND DIVING ADVISORY 99-05 PROVIDE AMPLIFYING INFORMATION.

GENERAL NOTE (2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED.

GENERAL NOTE (3): PART NUMBERS OF DESIGNATION/MODEL REFLECT THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE. PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE ITEM NAME VICE JUST THE ITEM NAME WHEN ORDERING BUOYANCY COMPENSATORS AND LIFE PRESERVERS.

CAT I 1.1.1	BUOYANCY COMPENSATOR 9C 4220-01-227-7082 AEL: 2-90000155	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.08	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99)
CAT I 1.1.2	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.09	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99)
CAT I 1.1.2.1	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SONIFORM INC.	MODEL SF-1044 FRONT MOUNTED BUOYANCY COMPENSATOR	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. MUST USE 38 GRAM CO2 CARTRIDGE. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)
CAT I 1.1.3	BUOYANCY COMPENSATOR COMMERCIAL	SCUBA PRO	MILITARY CLASSIC CLASSIC NT BLACK BC (JACKET TYPE, P/N 21-341-X00)	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. THE FINAL PART OF THE PART NUMBER IS THE SIZE, AND WILL THEREFORE VARY. (6/9/99)
CAT I 1.1.4	BUOYANCY COMPENSATOR 9E 4220-01-005-0773	AQUALUNG (US DIVERS)	NEW NO.: 3940-50 OLD NO.: 3940-00 (MILITARY) YOKE STYLE BC	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. (6/9/99)
CAT I 1.1.5	BUOYANCY COMPENSATOR COMMERCIAL	NATIONAL DRAEGER, INC	SHADOW LIFE VEST MODEL/MK 7 MOD 0, PN 4056304	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
1.1 LIFE PRESERVERS (CONTINUED)				
CAT I 1.1.6	LIFE PRESERVER, LOW MAGNETIC SIGNATURE COMMERCIAL	NATIONAL DRAEGER,INC	SHADOW LIFE VEST/MODEL 806LM (MK 6 MOD 0), PN 4053603	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW. MK 6 MOD 0 IS THE NEW DESIGNATION FOR MODEL 806LM. (6/9/99)
CAT I 1.1.7	LIFE PRESERVER 1H-4220-01-213-3533 COMMERCIAL	FENZY	FENZY M-4 FENZY X-4	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99)
CAT I 1.1.8	LIFE PRESERVER 3HS1386-01-346-1997 APL: 990010102	SONIFORM,INC EL CAJON, CA	MK 4, PART# 5050-000, OR DWG# 592-6383528- 1	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 200 FSW FOR MK15/16 OPERATIONS . FOR MK 15/16 UBA OPERATIONS, THE MK 4 SHALL BE FITTED WITH 4 (30-34 GRAM) MIL-C-16385 TYPE II CARTRIDGES (9C 4220-00-965-0595). AUTHORIZED TO 190 FSW FOR OPEN CIRCUIT SCUBA OPERATIONS. FOR OPEN CIRCUIT SCUBA OPERATIONS (NOT MK15/16) FOUR (4) 25-28 GRAM MIL-C-25369 TYPE I CARTRIDGES (9C 4220-00-372-0585) MAY BE USED IN LIEU OF FOUR (4) 30-34 GRAM CARTRIDGES. SONIFORM PNEUMATIC INFLATOR MAY BE USED TO CONVERT THE LIFE PRESERVER TO A BUOYANCY COMPENSATOR.
CAT I 1.1.9	LIFE PRESERVER 1H-4220-01-221-4012	SMR TECHNOLOGIES ENGINEERED RUBBER PRODUCTS OLDER EDITIONS MADE BY RFI	MODIFIED UDT LIFE PRESERVER PN -110669	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 130 FSW WHEN USED WITH TWO 38 GRAM CO ₂ CARTRIDGES. TO ENSURE THAT THE LIFE JACKET DOES NOT OVER INFLATE AT DEPTHS SHALLOWER THAN 33 FSW, PULL ONE ACTUATOR AT A TIME. THE RUBBER SLEEVE CHECK VALVE SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS. THE MODIFIED UDT IS AUTHORIZED WITH ROBERT'S VALVE 840AM /AMS IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1
CAT I 1.1.10	LIFE PRESERVER 3H-4220-01-263-1988 APL:990010054	NATIONAL DRAEGER,INC	SECUMAR TSK 2/42 LIFE JACKET, PN 4053113	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED FOR USE WITH LAR V ONLY, MAXIMUM DEPTH OF 50 FSW. REPLACEMENT AIR INFLATION SYSTEM PART NUMBER 806-015 IS AUTHORIZED WITH THE SECUMAR TSK 2/42 LIFE JACKET
CAT I 1.1.11	LIFE VEST 9C-4220-00-276-8929	STOCK ITEM	UDT LIFE VEST MIL-L-16383	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED FOR SURFACE SWIMMING AND FOR SCUBA TO 33 FSW ONLY. THE RUBBER SLEEVE CHECK VALVE IF INSTALLED SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS. THE MODIFIED UDT IS AUTHORIZED WITH ROBERT'S VALVE 840AM /AMS IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.1 LIFE PRESERVERS (CONTINUED)

CAT I 1.1.12	BOUYANCY COMPENSATOR COMMERCIAL	SCUBAPRO	SEAHAWK MODEL # 21.411	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. NO LONGER MANGACTURED BUT AUTHORIZED FOR CONTINUED USE. (6/9/99)
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1.2 CARTRIDGES, CO2

CAT I 1.2.8	CARTRIDGE, CO2 9C 4220-01-106-6212	MILITARY SPEC	17-21 GRAM	AUTHORIZED FOR USE IN THE UDT LIFE VEST MIL-L-16383.
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1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA

Maintenance and Inspection note:

1. During 1994, the Department of Transportation discovered ruptures involving two DOT-2AL cylinders made of aluminum alloy 6351-T6 and advised owners of these cylinders to follow certain precautionary measures.

2. DOT-3AL and DOT-E 7235 cylinders may be constructed of aluminum alloy 6351-T6. If you have a DOT-3AL or DOT-E 7235 SCUBA cylinder which meets any of the following criteria, contact the manufacturer to determine if your cylinder is made of aluminum alloy 6351-T6.

a. Manufactured by LUXFER USA before the dates listed below:

<u>TYPE</u>	<u>PART NUMBER</u>	<u>DATE MANUFACTURED</u>
30 AND 63 CU FT	S30, S63	5/88
40 CU FT	S40	6/88
50 AND 92 CU FT	S50, S92	4/88
72 AND 100 CU FT	S72, S100	8/87
80 CU FT	S80	1/88
80.8 CU FT	S80.8	5/87

b. Manufactured by Cliff-Impact Division of Parker Hannifer Corp before July 1990.

c. Manufactured by any other company in the United states, except Catalina Cylinders (A Division of Aluminum Precision products INC.), before February 1990.

d. Manufactured outside the United States.

3. If the cylinder is made of aluminum alloy 6351-T6, perform a visual inspection of the cylinder for cracks and crack indications whenever the cylinder valve is removed. Focus inspection on the threads and the interior of the cylinder neck and shoulder. Contact the cylinder re-tester, distributor or manufacturer for further information regarding visual inspection and rejection criteria.

This note is a promulgated from Diving Advisory 94-21.

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA (CONTINUED)				
CAT I 1.3.4	CYLINDER, COMMERCIAL	CYLINDER, AQUALUNG (US DIVERS)	SCUBA CYLINDER PART NUMBER AL 80 (GRAY) (0755-00)	(6/9/99)
CAT I 1.3.5	CYLINDER ASSEMBLY WITH BACKPACK, 9C-4220-00-058-1609	AQUALUNG (US DIVERS)	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0765-80 (BLACK) TWIN 80'S	(6/9/99)
CAT I 1.3.6	CYLINDER ASSEMBLY WITH BACKPACK, 9E-4220-01-130-1488	AQUALUNG (US DIVERS)	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0757-80 (GRAY)	(6/9/99)
CAT III 1.3.8	DIVER'S TANK BOOT COMMERCIAL 9C-4220-01-227-7829	AQUALUNG (US DIVERS)	(0700-00)	(6/9/99)
CAT III 1.3.10	TWIN BACKPACK 9C-4220-01-274-3690	AQUALUNG (US DIVERS)	MARINER (0834-00)	(6/9/99)
CAT III 1.3.11	BACKPACK TWIN TANK HARNESS 7.25" ASSEMBLY 9C-4220-01-327-1993	AQUALUNG (US DIVERS)	0827-00	(6/9/99)
CAT I 1.3.13	VALVE/MANIFOLD, 9C-4220-00-744-1248 APL: 990010105	AQUALUNG (US DIVERS)	SINGLE J-VALVE PN 0545-00	(6/9/99)
CAT I 1.3.14	VALVE/MANIFOLD, 9C-4220-00-104-8732 APL: 990010106	AQUALUNG (US DIVERS)	TWIN MANIFOLD J- VALVE (2800-00)	(6/9/99)
CAT I 1.3.15	VALVE/MANIFOLD 9C-4220-01-039-1873	AQUALUNG (US DIVERS)	K-VALVE 0542-00	SCUBA REGULATORS SHALL BE EQUIPPED WITH SUBMERSIBLE PRESSURE GAGE WHEN USING K-VALVE (6/9/99)
CAT I 1.3.16	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	DOUBLE VALVE MANIFOLD - PN SUB6306D,4000 KDE	MAY BE USED TO CREATE REDUNDANT SCUBA SYSTEM FOR ICE/COLD WATER DIVING OPERATIONS. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA (CONTINUED)

CAT I 1.3.17	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	SINGLE J VALVE, PN 4000J, SUB 40005, SUB 4000 JD	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)
CAT I 1.3.18	SCUBA CYLINDER COMMERCIAL	LUXFER	S-19 (19 CUFT) S-30 (30 CUFT)	THESE FLASKS MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED. THE EXPECTED DURATIONS OF THE CYLINDERS AT 60 FSW IS FIVE MINUTES FOR THE 19 CUBIC FOOT (S-19), AND SEVEN MINUTES FOR THE 30 CUBIC FOOT (S-30). (9/29/99) NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)
CAT I 1.3.19	SCUBA CYLINDER COMMERCIAL	SHERWOOD	AL0030 (30 CUFT)	THIS FLASK MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED. THE EXPECTED DURATION OF THE CYLINDERS AT 60 FSW IS SEVEN MINUTES FOR THE 30 CUBIC FOOT (AL0030). NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)

1.4 REGULATORS, COLD WATER SERVICE

CAT I 1.4.1	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-623-7280	POSEIDON	ODIN PART # 3960-80 or old number 2960-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH AN ODIN OCTOPUS 2ND STAGE REGULATOR (PN 29700000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NEWER VERSION ODIN IS CALLED JETSTREAM. (6/9/99)
CAT I 1.4.2	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-367-7062	POSEIDON	CYKLON 5000 PART # 3950-80 or old number 2950-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR (PN 29810000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. (6/9/99)
CAT I 1.4.3	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	THOR PART # 2940-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A ODIN OCTOPUS 2ND STAGE AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED BUT REMAINS AUTHORIZED FOR USE. (6/9/99)
CAT I 1.4.4	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	CYKLON 300 PART # 2980-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED, BUT REMAINS AUTHORIZED FOR USE. (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.4 REGULATORS, COLD WATER SERVICE (CONTINUED)

CAT I 1.4.8	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL	AGA	MK-IIG AGA	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF COLD WATER APPROVED POSEIDON ODIN. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE. THE MK IIG IS AUTHORIZED FOR USE WITH THE MK 20 DIVING SYSTEM, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING. (6/9/99)
CAT I 1.4.9	FULL FACE MASK, BALANCED REGULATOR, COMMERCIAL	DIVING SYSTEMS INT'L	EXO-26BR	EXO-26BR IS AUTHORIZED FOR USE IN SCUBA MODE ONLY. AUTHORIZED TO 190 FSW. AUTHORIZED FOR USE IN 37 DEGREE FAHRENHEIT WATER AND COLDER WHEN MATED WITH FIRST STAGE OF APPROVED POSEIDON ODIN COLD WATER REGULATOR. AN APPROVED SECOND STAGE COLD WATER OCTOPUS REGULATOR SHALL ALSO BE USED WITH THE FIRST STAGE OF ALL COLD WATER EXO-26BR REGULATOR SYSTEMS. (6/9/99)

1.5 REGULATORS, GENERAL SERVICE

CAT I 1.5.1.1	AMBIENT AIR BREATHING DEVICE FOR USE WITH MK-IIG AGA FULL FACE MASK; COMMERCIAL	TECH ONE, INC	55-300USN	AMBIENT AIR BREATHING DEVICE (OR GILL VALVE) IS AN AUTHORIZED MODIFICATION TO THE AGA MK-IIG FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON SURFACE. LIMITED TO SCUBA APPLICATIONS. UNIT LEVEL MODIFICATION OF AGA FACEPLATE NOT AUTHORIZED. CONTACT MANUFACTURER. MK-IIG AGA WITH GILL VALVE MOD IS AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER OR WARMER.
CAT I 1.5.3.1	REGULATOR, GENERAL COMMERCIAL	MARES	MR-12 ORBITER	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT AND WARMER WATER. (6/9/99)
CAT I 1.5.4	REGULATOR, GENERAL COMMERCIAL	SCUBA PRO	MK10/G-250	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. NO LONGER MANGACTURED BUT AUTHORIZED FOR CONTINUED USE. (6/9/99)
CAT I 1.5.5	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	MICRA P/N 1001.00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)
CAT I 1.5.6	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	PRO DIVER P/N 1021-95	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. NO LONGER MANUFACTURED, BUT CONTINUED AUTHORIZED FOR USE. (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.5 REGULATORS, GENERAL SERVICE (CONTINUED)

CAT I 1.5.7	REGULATOR, GENERAL COMMERCIAL 9C-4220-00-141-1902	AQUALUNG (US DIVERS)	SE-2 PART # 1074-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES. (6/9/99)
CAT I 1.5.8	REGULATOR, GENERAL 9C-4220-01-294-4106	AQUALUNG (US DIVERS)	SE-2 SUPREME PART # 1076-90	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES. (6/9/99)
CAT I 1.5.9	REGULATOR, GENERAL 1H-1940-01-105-3069 APL:990010053	AQUALUNG (US DIVERS)	CONSHLF XI PART # 1081-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. BOX BOTTOM PART NUMBERS 1085-50 OR 1049-22 AUTHORIZED. (6/9/99)
CAT I 1.5.10	REGULATOR, GENERAL APL: 990010019 1H-4220-01-388-1030	AQUALUNG (US DIVERS)	CONSHLF XIV SUPREME PART # 1088-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)
CAT I 1.5.12	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	SEA-2	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)

1.6 REGULATORS, SPECIAL SERVICE FULL FACE MASK

CAT I 1.6.3	FULL FACE MASK, BALANCED REGULATOR, COMMERCIAL	DIVING SYSTEMS INT'L	EXO-26BR	EXO-26BR IS AUTHORIZED FOR USE IN SCUBA MODE ONLY. AUTHORIZED TO 190 FSW WHEN MATED WITH ANU LISTED FIRST STAGE REGULATOR. REFER TO CONTROL # 1.4.9 FOR COLD WATER APPLICATION. (6/9/99)
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1.7 SPECIAL ACCESSORY ITEMS

CAT II 1.7.2	MASK, 9C-4220-01-358- 4250	AQUALUNG (US DIVERS)	MASK, NON- MAGNETIC DIVER (5029-50)	EOD NON-MAGNETIC SCUBA FACE MASK, AUTHORIZED FOR EOD AND SPECWAR DIVING REQUIRING NON-MAG SCUBA ACCESSORIES. (6/9/99)
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1.10 VEHICLE, DIVER PROPULSION

CAT II 1.10.2	DPV, COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK V, MK VI	NOW BEING SUPPORTED BY FARALLON USA INC; DIVER PROPULSION VEHICLES. PO BOX 450505, ATLANTA, GA 31145 PHONE (770) 414-0550. (6/9/99)
CAT II 1.10.3	DPV, COMMERCIALY AVAILABLE	FARALLON USA, INC.	MK VIII & MK VIII-S	FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI. MK VIIIS IS A SMALLER VERSION OF THE MK VIII (12/8/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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1.10 VEHICLE, DIVER PROPULSION (Continued)

CAT I 1.10.7	SWIMMER DELIVERY VEHICLE (SDV) NAVSEA CONTROLLED ITEM	N/A	MK VIII MOD 0/1	NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASYS COM PMS 325J COGNIZANCE, (703) 602-9032, DSN 332-9032. (9/29/99)
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2.2 Dry Suits

CAT II 2.2.8	DRY SUIT COMMERCIAL	NOKIA	THE BOSS	GENERAL NOTES (1) AND (2) APPLY NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)
CAT II 2.2.8.1	DRY SUIT COMMERCIAL	AMRON	AHD-1600	GENERAL NOTES (1) AND (2) APPLY (9/29/99)

2.3 Diver Heater Equipment

CAT II 2.3.3	HOT WATER HEATER, COMMERCIAL	MARVEL	MILITARY MONKEY HEATER PART NUMBER PWH-100/3	NOT AUTHORIZED FOR OPERATIONS DEEPER THAN 100 FSW. MODIFICATIONS TO MILITARY MONKEY HEATER INCLUDE HARD MOUNTING OF THE FUEL REGULATOR, SEALED FUEL SOLENOID, 20 FOOT POWER CORD, GFI, AND WATER-RESISTANT CONTROL BOX. UNMODIFIED MONKEY HEATERS CURRENTLY IN SERVICE ARE APPROVED FOR CONTINUED USE. (8/26/99)
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3.1 DIVING HARNESS / **BOOTS**

CAT III 3.1.7	DIVE BOOTS, COMMERCIAL	VARIOUS	VARIOUS	MARVEL, SERVUS BOOT PART NUMBER 21622, FULL SIZES 6-13; VIKING, VIKING WELTER BOOT™ (6/9/99)
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3.2 UMBILICAL HOSE

GENERAL NOTE: UMBILICALS SHALL BE ORDERED AND ASSEMBLED UTILIZING GUIDANCE CONTAINED IN US NAVY UMBILICAL DESCRIPTION, MATERIALS AND ASSEMBLY MANUAL, SS521-AH-PRO-010. WHEN ORDERING THE AQUALITE SPIRAL DESIGNED UMBILICAL MUST BE FACTORY TWISTED AND INCORPORATE A COMBINATION STRENGTH/COMMUNICATION CABLE P/N CAF0334. CONTACT NAVSEA 00C3, COMM (703) 607-2766 DSN 327-2766 FOR ASSISTANCE.

CAT 1 3.2.3	BREATHING AIR HOSE, COMMERCIAL	AQUALITE & AMRON	HAL 0106	PRODUCT ID: HAL 0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI. (9/29/99)
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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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3.4 DIVING HELMETS AND OTHER AUTHORIZED FOR USE AND CLASS CERTIFIED SYSTEMS

CAT I 3.4.1	SURFACE SUPPLIED DIVING MASK, NAVSEA CONTROLLED	INTERSPIRO	MK 20	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 20 O&M MANUAL S600-AK-MMO-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767. ITEM 1.4.8, MK IIG AGA, IS AN AUTHORIZED MASK WITH THIS CONFIGURATION, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING. (11/17/99)
CAT I 3.4.3	MANIFOLD BLOCK ASSEMBLY, COMMERCIAL	DIVING SYSTEMS INTERNATIONAL (DSI)	MANIFOLD BLOCK ASSEMBLY	APPROVED FOR USE WITH UBA MK 20 FOR PROVIDING EGS CAPABILITY WITHIN MK 20 OPERATING LIMITS. (6/9/99)
3.4.4	HOSE, QUICK DISCONNECT, STAINLESS STEEL, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-025 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY. (6/9/99)
CAT I 3.4.5	HOSE, QUICK DISCONNECT, BRASS, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-020 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY. (6/9/99)

3.6 COMMUNICATIONS SYSTEMS AND ACCESSORIES

CAT II 3.6.2	AMCOM III COMMERCIAL	AMRON INTER- NATIONAL DIVING SUPPLY, INC.	MODEL 2830/24M	MODEL 2830/24M IS 3 DIVER SYSTEM. USE PN# 1406A TO ORDER MK 20 COMMS ASSEMBLY FOR AMCOM III. PN# 28FDH IS WIRELESS TENDER/SUPERVISOR HEADSET SYSTEM. HELMETS MUST BE OUTFITTED WITH AMRON EARPHONES AND MICS., NOT COMPATIBLE WITH HYDROCOM OR HELLE EARPHONES/MICS. WHEN USING MARSH MARINE FITTINGS, WIRING CONFIGURATION VERSION A OR B MAY BE USED.(9/29/99)
CAT II 3.6.3.1	AMCOM II HELIUM SPEECH UNSCRAMBLER COMMERCIAL	AMRON INTERNATIONAL DIVING SUPPLY, INC	2825/24/26-MS AC POWER 2825/28/26-MS BATTERY POWERED	(9/29/99)
CAT II 3.6.12	STRENGTH/ COMMUNICATIONS CABLE, COMMERCIAL	STRENGTH/ COMMUNICATIONS CABLE/NEDU CODE 03D	STRENGTH/ COMMUNICATIONS CABLE	NAVSEA DWG's 592-5939961,592-5939962 AND 592-5939963 REFER. (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
4.1 Recall/One-Way Communicators				
CAT II 4.1.1	DIVER RECALL SYSTEM, COMMERCIAL	BENTOS, INC.	MODEL 4501B	WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)
4.3 THROUGH WATER COMMUNICATORS				
CAT III 4.3.2	COMMERCIAL	ORCATRON COMMUNICATIONS LTD. , DELTA, BC CAN	SCUBAPHONE ORCA RT-2000S SYSTEM	COMPATIBLE WITH INTERSPIRO DIVATOR II FULL FACE MASK. (12/29/99)
CAT III 4.3.4.1	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM SSB- 2001	COMPATIBLE WITH AGA FFM, MK 20, AND EXO-26BR IN SCUBA MODE. COMPATIBLE WITH MK 25 MOD 0/2 UBA (P/N 900282-000) (6/9/99)
CAT III 4.3.9	COMMERCIAL	DIVECOM, INC.	DIVECOM MUC- 100/MUC-2000	MUC-100 IS SURFACE-TO-DIVER COM UNIT, MUC-2000 ALLOWS DIVER-DIVER AND DIVER-TO-SURFACE COMMUNICATION WHEN USED AS A SET WITH MUC-100. THE DIVECOM SC-100 SURFACE WALK-ABOUT HEAD PHONE (CAT III ITEM) MAY ALSO BE USED WITH THIS SYSTEM AS AN ACCESSORY. ORDER MUC-2000A FOR AGA COMPATIBLE COMMUNICATIONS. ORDER MUC-2000E FOR EXO-26BR COMPATIBLE COMMUNICATIONS (6/9/99)
CAT III 4.3.10	COMMERCIAL AND STOCK 9N-5895-01-230-7318 APL:959990002	RJE INTL. INC FORMERLY EFCOM	SCM- 100M/120M/125M	PREVIOUSLY BUILT BY EFCOM. SCM-100M IS DIVER MODULE, SCM-120M IS SURFACE ACCURACY KIT, SCM-125M IS SURFACE MODULE. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE (12/29/99)
CAT III 4.3.11	COMMERCIAL	ORCATRON COMMUNICATIONS LTD	MODEL 2000- SPPAGM SCUBA PHONE	2000-SPPAGM IS 2 DIVER, 1 SURFACE UNIT SYSTEM. 2000S IS SURFACE UNIT, 2000D IS DIVER UNIT. NATO APPROVED, COMPATIBLE WITH AGA FFM. (12/29/99)
CAT III 4.3.12	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	MK 2 DCI TWO DIVER RADIO SET	MK 2-DCI IS SURFACE UNIT, MK 1-D-A IS DIVER UNIT, MK 1-D/S IS WALK ABOUT MIC UNIT. COMPATIBLE WITH AGA FFM. THE MK 1 DCI SURFACE UNIT IS NO LONGER MANUFACTURED. (6/9/99)
CAT III 4.3.13	COMMERCIAL OR 3H-5820-01-346-4522 APL:990010097	OCEAN TECHNOLOGY SYSTEMS	AQUACOM SSB 1000D OR SSB- 1001/SSB-1001B	SSB 1000D IS OLD DESIGNATION OF SSB-1001. COMPATIBLE WITH AGA FFM. COMPATIBLE WITH AGA FFM AND EXO-26BR IN SCUBA MODE (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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5.2 5000 PSIG H. P. AIR COMPRESSORS

<i>CAT I 5.2.11</i>	<i>HP AIR COMPRESSOR, COMMERCIAL</i>	<i>BAUER</i>	<i>MARINER, MODEL E1/3,D, G, 5000 PSI, 7 SCFM</i>	<i>GENERAL NOTES APPLY. COMPRESSOR PREVIOUSLY RATED AS 3000 PSIG SERVICE. ENSURE ALL PIPING, FLASKS AND ASSOCIATED PRESSURE COMPONENTS ARE ALSO RATED TO 5000 PSIG SERVICE PRIOR TO USE. (6/9/99)</i>
<i>CAT I 5.2.12</i>	<i>HP AIR COMPRESSOR, COMMERCIAL</i>	<i>MAKO</i>	<i>KA-7, BA-D, 5000 PSI, 8SCFM</i>	<i>GENERAL NOTES APPLY (6/9/99)</i>

5.3 4500 AND 3000 PSIG H. P. AIR COMPRESSORS

<i>CAT I 5.3.4</i>	<i>HP AIR COMPRESSOR, COMMERCIAL</i>	<i>HARDIE-TYNES</i>	<i>3M-133 3000 PSI, 8 SCFM</i>	<i>GENERAL NOTES APPLY. (12/3/99)</i>
<i>CAT I 5.3.17</i>	<i>HP AIR COMPRESSOR, COMMERCIAL H.P. COMPRESSOR</i>	<i>MAKO</i>	<i>5405 HP COMPRESSOR 3000 PSI 8 – 10 SCFM</i>	<i>GERERAL NOTES APPLY (6/9/99)</i>
<i>CAT I 5.3.18</i>	<i>H.P. COMPRESSOR COMMERCIAL NSN 9C4310-01-107-8006</i>	<i>MAKO</i>	<i>KA7-DA HP COMPRESSOR 3000 PSI 5 SCFM</i>	<i>GERERAL NOTES APPLY(6/9/99)</i>

6.2 Air Filtration Systems and Filter Elements

<i>CAT I 6.2.1</i>	<i>FILTER HOUSING, COMMERCIAL</i>	<i>CONSLER</i>	<i>11714 150 PSIG</i>	<i>FILTER ELEMENT 11714. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. (12/3/99)</i>
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6.3 SODALIME CARBON DIOXIDE ABSORBENTS

<i>CAT I 6.3.1</i>	<i>CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-113- 0110</i>	<i>W. R. GRACE & CO.</i>	<i>HIGH PERFORMANCE SODASORB, REGULAR</i>	<i>THIS IS A 4 - 8 MESH SODALIME. (6/9/99)</i>
<i>CAT I 6.3.2</i>	<i>CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110</i>	<i>MOLECULAR PRODUCTS LTD.</i>	<i>SOFNOLIME 408 MESH NI L GRADE</i>	<i>THIS IS A 4 - 8 MESH SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO. (6/9/99)</i>
<i>CAT I 6.3.3</i>	<i>CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-412-0637</i>	<i>MOLECULAR PRODUCTS LTD.</i>	<i>SOFNOLIME 812 MESH NI D GRADE</i>	<i>THIS IS A 10 - 14 MESH (U.S.) SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO. (6/9/99)</i>

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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GENERAL NOTE FOR SODALIME:: ALL SODALIMES MAY NOT BE APPROVED FOR ALL APPLICATIONS. CHECK WITH CERTIFICATION AUTHORITY OR TECHNICAL MANAUAL FOR SYSTEM PRIOR TO ORDERING OR USING A PARTICULAR PRODUCT

7.1 RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT

7.1.4	ITEM DELETED 8/27/98			
7.1.5	ITEM DELETED 8/27/98			
7.1.6	ITEM DELETED 8/27/98			
CAT II 7.1.7	FIRE EXTINGUISHER, 9C-4210-01-316-0211	AMRON CORP.	MODEL 240	AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE. (6/9/99)
CAT II 7.1.8	PRESSURE COMPARISON DEVICE, COMMERCIAL	3D INSTRUMENTS	8106-100/ VACUUM - 60 PSI, 8103-100/ 0- 150 PSI, 8105-300/ 0- 3000 PSI	USE ONLY DISTILLED WATER AS HYDRAULIC MEDIUM FOR GAUGE COMPARISON TO PREVENT GAUGE CONTAMINATION. FOR COMPARISON ONLY, NOT SUITABLE FOR CALIBRATION. (6/9/99)
CAT II 7.1.9	TEMP MONITOR, COMMERCIAL	ANALOX	ANALOX 4000 SA1A14B1P SA1A14A1P	SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE. (6/9/99)
CAT II 7.1.10	TEMP MONITOR, COMMERCIAL	COLE PARMER	TYPE J-K8521-02	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/3/99)
CAT II 7.1.11	TEMP MONITOR, COMMERCIAL	ANALOGIC CORP.	MEASUROMETER II	(6/9/99)
CAT II 7.1.12	COOLING VEST, COMMERCIAL & 8415-01-289-9707 GEL STRIPS: 8415-01- 289-9796 VEST	STEELE, INC.	SA1140-FR	COOLING VESTS SHOULD BE CONSIDERED FOR CHAMBERS IN WHICH A HEAT PROBLEM MIGHT REASONABLY OCCUR, BASED ON THE OPERATIONAL ENVIRONMENT AND LEVEL OF INTERNAL & EXTERNAL CHAMBER TEMPERATURE CONTROL AVAILABLE, i.e., HEATER/CHILLER SYSTEM, AIR CONDITIONED SHELTER, EXTERNAL WATER DELUGE, ETC. GEL STRIPS, PN: SA1149/NSN 8415-01-289-9796 ARE ALSO REQUIRED FOR THIS SYSTEM. (12/29/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
7.1 RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT (CONTINUED)				
CAT I 7.1.13	OXYGEN TREATMENT PANEL, COMMERCIAL	AMRON INTERNATIONAL	MODEL 8890	AUTHORIZED FOR FITTED FACILITY RECOMPRESSION CHAMBERS ONLY, <u>NOT FOR USE</u> IN PORTABLE RECOMPRESSION CHAMBERS. FOR USE IN HYPERBARIC CHAMBERS DURING TREATMENTS. AUTHORIZED WITH FOLLOWING ACCESSORIES: 1. OXYGEN THERAPY HOOD (SL-1002) 2. OXYGEN THERAPY HOOD (MODEL 8891) 3. NECK SEAL WITH MOUNT RING (SL-1001) 4. HUMIDIFIER (8890-0063) (6/9/99)
CAT II 7.1.14	CHEM LIGHTS, COMMERCIAL	OMNIGLOW CORP. NOVATO, CA	PART NUMBER 9- 27021 CYALUME NIGHT STICKS (CHMLT)	CHMLTs AUTHORIZED AS AN EMERGENCY LIGHTING SOURCE IN HYPERBARIC CHAMBERS. DO NOT STORE CHMLTs IN CHAMBERS; INSTEAD, THEY SHOULD BE PLACED IN A TREATMENT CHAMBER ONLY WHEN NEEDED TO PROVIDE ILLUMINATION DURING A TREATMENT.
CAT II 7.1.15	CHAMBER CONDITIONING UNIT COMMERCIAL	AMRON	9100 ICS	P/N 9100RMK IS THE AUTHORIZED REPLACEMENT MOTOR KIT.

8.1 GAS ANALYSIS EQUIPMENT

CAT II 8.1.9	OXYGEN ANALYZER, COMMERCIAL	ANALOX	ANALOX 100M MINI O ₂ PORTABLE O ₂ ANALYZER	DESIGNED TO VERIFY OXYGEN LEVELS IN NITROX AND HELIOX CYLINDERS, MONITOR COMPRESSOR OUTPUT FOR O ₂ LEVELS IN DIVING CHAMBERS, AND IN OTHER MEDICAL APPLICATIONS. (6/9/99)
CAT II 8.1.10	CO ₂ ANALYZER COMMERCIAL	AMRON INTERNATIONAL	ANOLOX (501) MINI- CO ₂ PORTABLE CARBON DIOXIDE ANALYZER	OPERATES UNDER TWO RANGES: 0.1 PERCENT TO 5 PERCENT CO ₂ (501-5), 0.01 PERCENT TO 2 PERCENT CO ₂ (501-2). DIGITAL READOUT WITH AUDIBLE ALARM. WATER RESISTANT, RECHARGEABLE BATTERIES. (9/29/99)
CAT II 8.1.11	CO ₂ ANALYZER COMMERCIAL	GEOTECHNICAL INSTRUMENTS INC.	ANAGAS MODEL HB 1.1A	MEASURES CO ₂ UP TO 2.5 PERCENT OF SEV AT 1 TO 6 ATMOSPHERES ABSOLUTE (ATA). THE ANAGAS MODEL HB 1.1A IS A SPECIFICALLY MODIFIED UNIT FOR NAVY USE, AND IS DESIGNED FOR USE INSIDE CHAMBERS USE IN HIGH HUMIDITY, I.E., DDS. NOTE: ONLY THE ANAGAS MODEL HB 1.1A (ID'D BY A BLUE CASE) IS AUTHORIZED. (6/9/99)
CAT II 8.1.12	CO ₂ MONITOR, COMMERCIAL	ANALOX	MODEL 5D	FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. ORDERED IN 1 OF 9 RANGE LIMITS AND 1 OF 2 RANGE MEASUREMENTS (PPM OR %). 2000,5000 or 10000 PPM OR 1,2,5,10,20 or 100%. AUDIBLE ALARM. LCD DISPLAYS. REMOTE ALARM REPEATER. (6/9/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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8.1 GAS ANALYSIS EQUIPMENT (CONTINUED)

<i>CAT II 8.1.13</i>	<i>CO MONITOR, COMMERCIAL</i>	<i>ANALOX</i>	<i>MODEL 3D</i>	<i>FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. RANGE OF MEASUREMENT CAN BE SPECIFIED AT TIME OF ORDERING. AUDIBLE ALARM. LCD DISPLAY. (6/9/99)</i>
<i>CAT II 8.1.14</i>	<i>O2 / CO2 COMBINED MONITOR COMMERCIAL</i>	<i>ANALOX</i>	<i>SUB E-1R-15P</i>	<i>PORTABLE, BATTERY POWERED, COMBINATION OXYGEN AND CARBON DIOXIDE MONITOR FOR USE INSIDE OR OUTSIDE OF A HYPERBARIC CHAMBER. MEASURES O2 LEVELS IN RANGE OF 0-2000 MBAR PPO2. MEASURE CO2 CONCENTRATIONS FROM 0 TO 50 MBAR PPCO2. (6/9/99)</i>

9.2-PHOTOGRAPHIC AND VIDEO EQUIPMENT

<i>CAT III 9.2.5</i>	<i>STROBE, COMMERCIAL</i>	<i>NIKONOS</i>	<i>SB 102, SB 103, SB 105</i>	<i>BATTERY ASSISTED/BATTERY POWERED NOTE: CERTAIN SB 103 UNITS HAVE BEEN RECALLED BY NIKON. SEE NAVSEA 00C WEB SITE AND/OR CONTACT MANUFACTURER FOR DETAILS. (11/17/99)</i>
<i>CAT III 9.2.18</i>	<i>PIPE INSPECTION EQUIPMENT, COMMERCIAL</i>	<i>DEESEA POWER AND LIGHT SEESNAKE</i>	<i>KD-VARIOUS DEPENDENT ON REEL LENGTH</i>	<i>FOUR INTERCHANGEABLE REELS AND CONTROLLERS. REELS – 200' SEESNAKE, PN 744-00301-08 325' SEESNAKE, PN 744-00301-09 100' MINI SEESNAKE, PN 744-01201-01 200' MINI SEESNAKE, PN 744-01201-02 CONTROLLERS – POWER SUPPLY ONLY, PN 742-00901-01 MONITOR NO VCR, PN 742-010-001-01 MONITOR W/ VCR, PN 742-013-003-01 VIDEO SYSTEM MANAGER, PN 742-008-001-01 (6/9/99)</i>
<i>CAT II 9.2.19</i>	<i>UNDERWATER TELEVISION SYSTEM, COMMERCIAL</i>	<i>KONGSBERG SIMRAD</i>	<i>MODEL OE 9021</i>	<i>CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263-6011) WITH TRIP CURRENT SETTINGS IAW ANU STANDARDS FOR DUCTS II. THE CONTROL UNIT MUST ALSO BE ORDERED WITH A MODIFIED POWER INPUT CORD FITTED WITH GFCI PROTECTOR (PART NUMBER 302-0053-00). (6/9/99)</i>

9.3 TOOLS

<i>CAT II 9.3.5.1</i>	<i>SONAR, HAND HELD COMMERCIALLY AVAILABLE</i>	<i>RJE INTERNATIONAL</i>	<i>DATASONIC DHS – 100</i>	<i>COMMERCIAL HAND HELD SONAR WITH OPERATING PARAMETERS AND CAPABILITIES AS AN/PQS-2A. DHS-100 NOT AUTHORIZED FOR EOD LOW MAGNETIC DIVING OPERATIONS. (6/9/99)</i>
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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.3 TOOLS (Continued)				
CAT III 9.3.14	COME-ALONG, 2-TON, HYDRAULIC, 9Q-5130-01- 177-4943 COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366561	TRACTEL INC., GRIPHOIST DIVISION OR DIVER PREFERENCE	TU-28H-SS-2	(12/3/99)
CAT III 9.3.18	GRINDER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263821	FAIRMONT OR DIVER PREFERENCE	HU 6935	GENERAL NOTE 1 APPLIES. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (12/3/99)
CAT III 9.3.21.1	HULL CLEANING DUAL BRUSH UNIT, HYDRAULIC COMMERCIALY AVAILABLE	FLEXBRUSH LIMITED OR ARMADA SYSTEMS, INC.	FLEXBRUSH LIMITED DUAL BRUSH CLEANING UNIT OR ARMADA AS-T14HB	GENERAL NOTE 1 APPLIES. THESE UNITS ARE PROHIBITED FOR USE ON USN ACTIVE, RESERVE OR INACTIVE SHIPS. AUTHORIZED AND INTENDED FOR USE ON SERVICE CRAFT AND UNDERWATER STRUCTURES. UNDER NO CIRCUMSTANCES SHALL ELECTRICALLY POWERED COMPONENTS BE INSTALLED ON THE CLEANING UNIT. THIS INCLUDES BUT IS NOT LIMITED TO LIGHTS, SENSORS OR IMAGING SYSTEMS. (6/9/99)
CAT III 9.3.23	IMPACT WRENCH, HEAVY DUTY, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG: 5367230, APL:990010040-2, NSN: 9Q-5130-01-204-1784	STANLEY OR DIVER PREFERENCE	IW20360 5/8 IN.	GENERAL NOTE 1 APPLIES. MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 40 MINUTES; MK 21, 1 HOUR 25 MINUTES (6/9/99)
CAT II 9.3.36	STUD GUN COMMERCIALY AVAILABLE	RAMSET	HD 200	USE OF THE STUD GUN IS LIMITED TO 40 SHOTS PER 24 HOUR PERIOD FOR EACH DIVER. MAY BE USED ONLY BY DIVERS TRAINED BY SEA 00C. SECURE STORAGE IS REQUIRED FOR THE STUD GUN AND THE .38 CAL ACTUATING CARTRIDGES. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE (12/3/99)

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.3 TOOLS (CONTINUED)				
CAT II 9.3.41	WATER JET CLEANING, HIGH PRESSURE PUMP, COMMERCIALY AVAILABLE MODIFIED IAW NAVSEA DWG 6699567 APL:41489002 9C-4940-01-117-9056	GARDNER DENVER (BUTTERWORTH)	WBD-150N-D	(12/29/99)
CAT II 9.3.41.1	WATER JET CLEANING TOOL, HIGH PRESSURE, ZERO THRUST GUN, COMMERCIALY AVAILABLE, MODIFIED IAW NAVSEA DWG 6699567	GARDNER DENVER (BUTTERWORTH)	31-09300-524	USED WITH ANU CONTROL #9.3.41. DIVER REQUIRED TO WEAR MK 21 MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: 85 MINUTES. (12/29/99)
CAT II 9.3.41.2	WATER JET CLEANING TOOL, HIGH PRESSURE FLEXIBLE LANCE, COMMERCIALY AVAILABLE, IAW NAVSEA DWG 6699567	GARDNER DENVER (BUTTERWORTH)	431516-037	USED WITH ANU CONTROL # 9.3.41. 1/2 INCH DIAMETER, 37 FT LENGTH. (12/29/99)

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1.0 BUOYANCY COMPENSATORS

GENERAL NOTE (1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VICE A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. THE U.S. NAVY DIVING MANUAL AND DIVING ADVISORY 99-05 PROVIDE AMPLIFYING INFORMATION.

GENERAL NOTE (2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED.

GENERAL NOTE (3): PART NUMBERS OF DESIGNATION/MODEL REFLECT THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE. PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE ITEM NAME VICE JUST THE ITEM NAME WHEN ORDERING BUOYANCY COMPENSATORS AND LIFE PRESERVERS.

CAT I 1.0.1	BUOYANCY COMPENSATOR COMMERCIAL	AQUALUNG (US DIVERS)	SEAQUEST BLACK DIAMOND PART NO. 3460-XX	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. ADDITIONAL COUNTERWEIGHTS CAN BE ORDERED USING PART NUMBER 3942-24. XX OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.2	BUOYANCY COMPENSATOR COMMERCIAL	SCUBAPRO	SUPERHAWK PART NO. 21.100.X00	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.3	BUOYANCY COMPENSATOR COMMERCIAL	ZEAGLE	RANGER PART NO. 7908RK SIZE	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. THE SIZE WILL VARY, ADD M TO PART NUMBER IF COUNTERWEIGHT ASSEMBLY IS TO BE INCLUDED. ADDITIONAL COUNTERWEIGHT ASSEMBLIES CAN BE ORDERED USING PART NUMBER 8050S (8/26/99)
CAT I 1.0.4	BUOYANCY COMPENSATOR COMMERCIAL	AQUALUNG (US DIVERS)	SEAMASTER PART NO. 7692-X0	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. ADDITIONAL COUNTERWEIGHTS CAN BE ORDERED USING PART NUMBER 3942-24. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)
CAT I 1.0.5	BUOYANCY COMPENSATOR COMMERCIAL	INTERNATIONAL DIVERS, INC.	ADVANTAGE PART NO. 15X01M	GENERAL NOTES (1), (2) AND (3) APPLY. WILL NOT FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE UNLESS COUNTERWEIGHT ASSEMBLIES ARE INSTALLED. X OF PART NUMBER IS THE SIZE AND WILL VARY. (8/26/99)

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1.1 LIFE PRESERVERS

GENERAL NOTE (1): LIFE PRESERVERS AND BUOYANCY COMPENSATORS BOTH PROVIDE EMERGENCY ASCENT CAPABILITY. LIFE PRESERVERS ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE AND ARE MANDATORY FOR CERTAIN SEMI CLOSED AND CLOSED-CIRCUIT UBAs (MK16 AND LAR V). BUOYANCY COMPENSATORS (WITHOUT COUNTERWEIGHTS) ARE DESIGNED TO FLOAT AN UNCONSCIOUS DIVER ON THE SURFACE IN A HEADS UP VICE A FACE UP POSITION AND CAN BE USED IN SCUBA APPLICATIONS. USE OF COUNTERWEIGHTS IN AN APPROVED BUOYANCY COMPENSATOR WILL FLOAT AN UNCONSCIOUS DIVER IN A FACE UP POSITION ON THE SURFACE. USE OF A BUOYANCY COMPENSATOR WITH OR WITHOUT COUNTERWEIGHTS IS AT THE DISCRETION OF THE DIVING SUPERVISOR. THE U.S. NAVY DIVING MANUAL AND DIVING ADVISORY 99-05 PROVIDE AMPLIFYING INFORMATION.

GENERAL NOTE (2): BUOYANCY COMPENSATORS PREVIOUSLY LISTED ON THE ANU WERE TESTED UNDER LIFE PRESERVER CRITERIA AND SHOULD BE USED IN THEIR TESTED AND APPROVED CONFIGURATION. MODIFICATION OF PREVIOUSLY APPROVED BUOYANCY COMPENSATORS IS NOT AUTHORIZED.

GENERAL NOTE (3): PART NUMBERS OF DESIGNATION/MODEL REFLECT THE CONFIGURATION THAT WAS TESTED AND AUTHORIZED FOR USE. PART NUMBERS SHOULD BE USED IN CONJUNCTION WITH THE ITEM NAME VICE JUST THE ITEM NAME WHEN ORDERING BUOYANCY COMPENSATORS AND LIFE PRESERVERS.

CAT I 1.1.1	BUOYANCY COMPENSATOR 9C 4220-01-227-7082 AEL: 2-90000155	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.08	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CHROME PLATED BRASS INSERT (PN 2002.135) IS USED TO REPLACE PLASTIC INSERT (PN 2002-13) FOR THE INFLATOR MECHANISM.
CAT I 1.1.2	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SEATEC	MILITARY SUNFISH, PRO BLACK CORDURA W/INFLATOR 1040.09	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. CHROME PLATED BRASS INSERT (PN 2002.135) IS USED TO REPLACE PLASTIC INSERT (PN 2002-13) FOR THE INFLATOR MECHANISM.
CAT I 1.1.2.1	BUOYANCY COMPENSATOR COMMERCIAL 4220-01-227-7082	SONIFORM INC.	MODEL SF-1044 FRONT MOUNTED BUOYANCY COMPENSATOR	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. MUST USE 38 GRAM CO2 CARTRIDGE. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)
CAT I 1.1.3	BUOYANCY COMPENSATOR COMMERCIAL	SCUBA PRO	MILITARY CLASSIC CLASSIC NT BLACK BC (JACKET TYPE, P/N 21-341-X00)	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. THE FINAL PART OF THE PART NUMBER IS THE SIZE, AND WILL THEREFORE VARY. (6/9/99)
CAT I 1.1.4	BUOYANCY COMPENSATOR 9E 4220-01-005-0773	AQUALUNG (US DIVERS)	NEW NO.: 3940-50 OLD NO.: 3940-00 (MILITARY) YOKE STYLE BC	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. (6/9/99)
CAT I 1.1.5	BUOYANCY COMPENSATOR COMMERCIAL	NATIONAL DRAEGER, INC	SHADOW LIFE VEST MODEL/MK 7 MOD 0, PN 4056304	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES.

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1.1 LIFE PRESERVERS (CONTINUED)				
CAT I 1.1.6	LIFE PRESERVER, LOW MAGNETIC SIGNATURE COMMERCIAL	NATIONAL DRAEGER,INC	SHADOW LIFE VEST/MODEL 806LM (MK 6 MOD 0), PN 4053603	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW. MK 6 MOD 0 IS THE NEW DESIGNATION FOR MODEL 806LM
CAT I 1.1.7	LIFE PRESERVER 1H-4220-01-213-3533 COMMERCIAL	FENZY	FENZY M-4 FENZY X-4	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW. AUTHORIZED REPLACEMENT FOR THE FENZY LIFE PRESERVER CYLINDER IS STEEL FENZY CYLINDER - PN 850230 (BOTTLE WITH VALVE). CYLINDERS WITH AG5(5283) WHICH DO NOT HAVE THE MARKS ARS OR APL ON THE SIDE MAY BE USED UNTIL THEY ARE 10 YEARS OLD.
CAT I 1.1.8	LIFE PRESERVER 3HS1386-01-346-1997 APL: 990010102	SONIFORM,INC EL CAJON, CA	MK 4, PART# 5050-000, OR DWG# 592-6383528- 1	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 200 FSW FOR MK15/16 OPERATIONS . FOR MK 15/16 UBA OPERATIONS, THE MK 4 SHALL BE FITTED WITH 4 (30-34 GRAM) MIL-C-16385 TYPE II CARTRIDGES (9C 4220-00-965-0595). AUTHORIZED TO 190 FSW FOR OPEN CIRCUIT SCUBA OPERATIONS. FOR OPEN CIRCUIT SCUBA OPERATIONS (NOT MK15/16) FOUR (4) 25-28 GRAM MIL-C-25369 TYPE I CARTRIDGES (9C 4220-00-372-0585) MAY BE USED IN LIEU OF FOUR (4) 30-34 GRAM CARTRIDGES. SONIFORM PNEUMATIC INFLATOR MAY BE USED TO CONVERT THE LIFE PRESERVER TO A BUOYANCY COMPENSATOR.
CAT I 1.1.9	LIFE PRESERVER 1H-4220-01-221-4012	SMR TECHNOLOGIES ENGINEERED RUBBER PRODUCTS OLDER EDITIONS MADE BY RFI	MODIFIED UDT LIFE PRESERVER PN -110669	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 130 FSW WHEN USED WITH TWO 38 GRAM CO ₂ CARTRIDGES. TO ENSURE THAT THE LIFE JACKET DOES NOT OVER INFLATE AT DEPTHS SHALLOWER THAN 33 FSW, PULL ONE ACTUATOR AT A TIME. THE RUBBER SLEEVE CHECK VALVE SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS. THE MODIFIED UDT IS AUTHORIZED WITH ROBERT'S VALVE 840AM /AMS IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1
CAT I 1.1.10	LIFE PRESERVER 3H-4220-01-263-1988 APL:990010054	NATIONAL DRAEGER,INC	SECUMAR TSK 2/42 LIFE JACKET, PN 4053113	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED FOR USE WITH LAR V ONLY, MAXIMUM DEPTH OF 50 FSW. REPLACEMENT AIR INFLATION SYSTEM PART NUMBER 806-015 IS AUTHORIZED WITH THE SECUMAR TSK 2/42 LIFE JACKET
CAT I 1.1.11	LIFE VEST 9C-4220-00-276-8929	STOCK ITEM	UDT LIFE VEST MIL-L-16383	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED FOR SURFACE SWIMMING AND FOR SCUBA TO 33 FSW ONLY. THE RUBBER SLEEVE CHECK VALVE IF INSTALLED SERVES NO USEFUL PURPOSE AND SHALL BE REMOVED PERMANENTLY FROM THESE LIFE PRESERVERS. THE MODIFIED UDT IS AUTHORIZED WITH ROBERT'S VALVE 840AM /AMS IN CONJUNCTION WITH SEATEC CO2 CARTRIDGE 9C-4220-01-045-5645 SMR PART NUMBER: 5SV1049, OLD B.F. GOODRICH NUMBER: 82-63-1013-02-1

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1.1 LIFE PRESERVERS (CONTINUED)

CAT I 1.1.12	BOUYANCY COMPENSATOR COMMERCIAL	SCUBAPRO	SEAHAWK MODEL # 21.411	GENERAL NOTES (1), (2) AND (3) APPLY. (8/3/99) AUTHORIZED TO 190 FSW WITH L.P. AIR INFLATION SOURCE OTHER THAN CO2 CARTRIDGES. NO LONGER MANGACTURED BUT AUTHORIZED FOR CONTINUED USE. (6/9/99)
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1.2 CARTRIDGES, CO2

CAT I 1.2.1	CARTRIDGE, CO2 9C-4220-00-287-3741	MILITARY SPEC	17-21 GRAM MIL-C-16385 ,TYPE I	NOT AUTHORIZED FOR MK 15/16 UBA OPERATIONS IN THE MK-4 LIFE PRESERVER. SEE NOTES FOR MK-4 LIFE PRESERVER.
CAT I 1.2.2	CARTRIDGE , CO2 9C-4220-00-372-0585	MILITARY SPEC	25-28 GRAM MIL-C-25369 TYPE I	NOT AUTHORIZED FOR MK 15/16 UBA OPERATIONS IN THE MK-4 LIFE PRESERVER. SEE NOTES FOR MK-4 LIFE PRESERVER. AUTHORIZED FOR OPEN CIRCUIT SCUBA OPERATIONS WHEN A TOTAL OF 4 ARE INSTALLED IN THE MK-4 LIFE PRESERVER.
CAT I 1.2.3	CARTRIDGE, CO2 1H-4220-00-965-0595	MILITARY SPEC	30-34 GRAM UDT CARTRIDGE MIL-C-16385 TYPE II	AUTHORIZED FOR MK 15/16 UBA OPERATIONS, WHEN A TOTAL OF 4 ARE INSTALLED IN THE MK-4 LIFE PRESERVER.
CAT I 1.2.4	CARTRIDGE, CO2 9C-4220-00-458-9240	MAR-VEL	16 GRAM LP-316	
CAT I 1.2.5	CARTRIDGE, CO2 9C-4220-01-228-5646	MARVEL	25 GRAM LP 325	
CAT I 1.2.6	CARTRIDGE, CO2 9C-4220-01-228-5645	SEATEC	38 GRAM	CO2 CARTRIDGE 9C-4220-01-045-5689 REPLACES THIS ITEM WHEN STOCKS ARE DEPLETED.
CAT I 1.2.7	CARTRIDGE, CO2 9C-4220-01-045-5689	MAR-VEL	38 GRAM LP-338	VARIOUS COMPANIES SUPPLY CARTS UNDER THIS NSN.
CAT I 1.2.8	CARTRIDGE, CO2 9C 4220-01-106-6212	MILITARY SPEC	17-21 GRAM	AUTHORIZED FOR USE IN THE UDT LIFE VEST MIL-L-16383.

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1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA

Maintenance and Inspection note:

1. During 1994, the Department of Transportation discovered ruptures involving two DOT-2AL cylinders made of aluminum alloy 6351-T6 and advised owners of these cylinders to follow certain precautionary measures.
2. DOT-3AL and DOT-E 7235 cylinders may be constructed of aluminum alloy 6351-T6. If you have a DOT-3AL or DOT-E 7235 SCUBA cylinder which meets any of the following criteria, contact the manufacturer to determine if your cylinder is made of aluminum alloy 6351-T6.

- a. Manufactured by LUXFER USA before the dates listed below:

<u>TYPE</u>	<u>PART NUMBER</u>	<u>DATE MANUFACTURED</u>
30 AND 63 CU FT	S30, S63	5/88
40 CU FT	S40	6/88
50 AND 92 CU FT	S50, S92	4/88
72 AND 100 CU FT	S72, S100	8/87
80 CU FT	S80	1/88
80.8 CU FT	S80.8	5/87

- b. Manufactured by Cliff-Impact Division of Parker Hannifer Corp before July 1990.

- c. Manufactured by any other company in the United states, except Catalina Cylinders (A Division of Aluminum Precision products INC.), before February 1990.

- d. Manufactured outside the United States.

3. If the cylinder is made of aluminum alloy 6351-T6, perform a visual inspection of the cylinder for cracks and crack indications whenever the cylinder valve is removed. Focus inspection on the threads and the interior of the cylinder neck and shoulder. Contact the cylinder re-tester, distributor or manufacturer for further information regarding visual inspection and rejection criteria.

This note is a promulgated from Diving Advisory 94-21.

CAT I 1.3.1	CYLINDER, SCUBA ALUMINUM COMMERCIAL	VARIOUS	DOT SPEC TYPE 3AL (ALUMINUM)	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE ALUMINUM SCUBA CYLINDERS THAT MEET DOT SPECIFICATION TYPE 3AL UP TO AND INCLUDING 3000 PSI SERVICE. SINGLE OR TWIN CYLINDERS, MINIMUM CYLINDER CAPACITY SHALL BE 50 CUFT AT RATED PRESSURE FOR OPEN CIRCUIT SCUBA OPERATIONS. DOT TYPE SP6498 ARE NO LONGER MANUFACTURED BUT ARE AUTHORIZED FOR USE.
CAT I 1.3.2	CYLINDER, SCUBA ALUMINUM , 80 CUFT 9C-4220-01-039-1962	VARIOUS	ALUMINUM 80 CU FT CYLINDER DOT-3AL-3000	

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<i>1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA (CONTINUED)</i>				
CAT I 1.3.3	CYLINDER, SCUBA STEEL COMMERCIAL	VARIOUS	DOT SPEC TYPE 3AA (STEEL)	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE STEEL SCUBA CYLINDERS THAT MEET DOT SPECIFICATION TYPE 3AA(STEEL). SINGLE OR TWIN CYLINDERS, MINIMUM CYLINDER CAPACITY SHALL BE 50 CUFT AT RATED PRESSURE FOR OPEN CIRCUIT SCUBA OPERATIONS.
CAT I 1.3.4	CYLINDER, COMMERCIAL	CYLINDER, AQUALUNG (US DIVERS)	SCUBA CYLINDER PART NUMBER AL 80 (GRAY) (0755-00)	(6/9/99)
CAT I 1.3.5	CYLINDER ASSEMBLY WITH BACKPACK, 9C-4220-00-058-1609	AQUALUNG (US DIVERS)	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0765-80 (BLACK) TWIN 80'S	(6/9/99)
CAT I 1.3.6	CYLINDER ASSEMBLY WITH BACKPACK, 9E-4220-01-130-1488	AQUALUNG (US DIVERS)	SCUBA BACKPACK AND CYLINDERS, PART NUMBER 0757-80 (GRAY)	(6/9/99)
CAT III 1.3.7	CYLINDER BANDS HARNESS/BACKPACK, COMMERCIAL	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE SCUBA CYLINDER BACKPACKS, CYLINDER BANDS AND HARNESS. THEY SHALL BE MAINTAINED IAW CURRENT PMS, AND MANUFACTURERS SPECIFICATIONS.
CAT III 1.3.8	DIVER'S TANK BOOT COMMERCIAL 9C-4220-01-227-7829	AQUALUNG (US DIVERS)	(0700-00)	(6/9/99)
CAT III 1.3.9	SINGLE CYLINDER BACKPACK 9C-4220-01-227-7506	MAR-VEL	PART # BP-800	
CAT III 1.3.10	TWIN BACKPACK 9C-4220-01-274-3690	AQUALUNG (US DIVERS)	MARINER (0834-00)	(6/9/99)
CAT III 1.3.11	BACKPACK TWIN TANK HARNESS 7.25" ASSEMBLY 9C-4220-01-327-1993	AQUALUNG (US DIVERS)	0827-00	(6/9/99)
CAT I 1.3.12	MANIFOLD, CYLINDER COMMERCIAL	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE SCUBA CYLINDER MANIFOLDS AND VALVES. MANIFOLDS, VALVES, AND RELIEF VALVE MECHANISMS SHALL BE PROPERLY MATCHED TO CYLINDERS WORKING PRESSURE TO ENSURE THE RELIEF VALVE (BLOW OUT PLUG) IS THE WEAKEST POINT IN THE SYSTEM.

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1.3 CYLINDERS, MANIFOLDS AND BACKPACKS, SCUBA (CONTINUED)

CAT I 1.3.13	VALVE/MANIFOLD, 9C-4220-00-744-1248 APL: 990010105	AQUALUNG (US DIVERS	SINGLE J-VALVE PN 0545-00	<i>(6/9/99)</i>
CAT I 1.3.14	VALVE/MANIFOLD, 9C-4220-00-104-8732 APL: 990010106	AQUALUNG (US DIVERS	TWIN MANIFOLD J- VALVE (2800-00)	<i>(6/9/99)</i>
CAT I 1.3.15	VALVE/MANIFOLD 9C-4220-01-039-1873	AQUALUNG (US DIVERS	K-VALVE 0542-00	SCUBA REGULATORS SHALL BE EQUIPPED WITH SUBMERSIBLE PRESSURE GAGE WHEN USING K-VALVE (6/9/99)
CAT I 1.3.16	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	DOUBLE VALVE MANIFOLD - PN SUB6306D,4000 KDE	MAY BE USED TO CREATE REDUNDANT SCUBA SYSTEM FOR ICE/COLD WATER DIVING OPERATIONS. NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)
CAT I 1.3.17	VALVE/MANIFOLD, COMMERCIAL	SHERWOOD	SINGLE J VALVE, PN 4000J, SUB 40005, SUB 4000 JD	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)
CAT I 1.3.18	SCUBA CYLINDER COMMERCIAL	LUXFER	S-19 (19 CUFT) S-30 (30 CUFT)	THESE FLASKS MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED. THE EXPECTED DURATIONS OF THE CYLINDERS AT 60 FSW IS FIVE MINUTES FOR THE 19 CUBIC FOOT (S-19), AND SEVEN MINUTES FOR THE 30 CUBIC FOOT (S-30). (9/29/99) NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)
CAT I 1.3.19	SCUBA CYLINDER COMMERCIAL	SHERWOOD	AL0030 (30 CUFT)	THIS FLASK MAY BE USED WITH MK 20 OR MK 21 TO 60 FEET OF SEA WATER IN SITUATIONS WHERE ENCLOSED SPACE DIVING OR SALVAGE IS NOT BEING CONDUCTED. THE EXPECTED DURATION OF THE CYLINDERS AT 60 FSW IS SEVEN MINUTES FOR THE 30 CUBIC FOOT (AL0030). NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)

1.4 REGULATORS, COLD WATER SERVICE

CAT I 1.4.1	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-623-7280	POSEIDON	ODIN PART # 3960-80 or old number 2960-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH AN ODIN OCTOPUS 2ND STAGE REGULATOR (PN 29700000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NEWER VERSION ODIN IS CALLED JETSTREAM.
CAT I 1.4.2	REGULATOR, COLD WATER COMMERCIAL 9C-4220-00-367-7062	POSEIDON	CYKLON 5000 PART # 3950-80 or old number 2950-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR (PN 29810000) AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286.

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1.4 REGULATORS, COLD WATER SERVICE (CONTINUED)				
CAT I 1.4.3	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	THOR PART # 2940-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A ODIN OCTOPUS 2ND STAGE AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.4	REGULATOR, COLD WATER COMMERCIAL	POSEIDON	CYKLON 300 PART # 2980-80	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER. SHALL BE FITTED WITH A CYKLON OCTOPUS 2ND STAGE REGULATOR AND 1ST STAGE ANTI-FREEZE CAP PART NUMBER 1286. NO LONGER MANUFACTURED, BUT REMAINS AUTHORIZED FOR USE.
CAT I 1.4.5	REGULATOR, 2ND STAGE OCTOPUS COLD WATER COMMERCIAL	POSEIDON	ODIN OCTOPUS PART # 29700000	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN FITTED TO ODIN 1ST STAGE REGULATOR.
CAT I 1.4.6	REGULATOR, 2ND STAGE OCTOPUS COLD WATER COMMERCIAL	POSEIDON	CYKLON OCTOPUS PART # 2981000	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN FITTED TO A CYKLON 5000 OR CYKLON 300 1ST STAGE REGULATOR.
CAT I 1.4.7	REGULATOR, 2ND STAGE & FULL FACE MASK (FFM), COLD WATER COMMERCIAL OR 9C-4220-01-330-6137 APL: 99010097	AGA	AGA MK-II /DIVATOR FFM PN 336-190-350 OR AGA 2ND STAGE MOUTH PIECE PN 336-190-354	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF POSEIDON ODIN WITH COLD WATER KIT. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE.
CAT I 1.4.8	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL	AGA	MK-IIG AGA	AUTHORIZED TO 190 FSW AND 37 DEGREES FAHRENHEIT WATER AND COLDER, WHEN MATED WITH THE 1ST STAGE OF COLD WATER APPROVED POSEIDON ODIN. A COLD WATER APPROVED OCTOPUS 2ND STAGE REGULATOR SHALL ALSO BE FITTED TO THE 1ST STAGE OF ALL AGA/COLD WATER REGULATOR SYSTEMS. MAY ALSO BE MATED TO THE 1ST STAGE OF US DIVERS PRO DIVER WITH COLD WATER KIT INSTALLED, US DIVERS PRO DIVER IS NO LONGER MANUFACTURED BUT CONTINUES TO BE AUTHORIZED FOR THIS SERVICE. THE MK IIG IS AUTHORIZED FOR USE WITH THE MK 20 DIVING SYSTEM, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN CONTAMINATED WATER OR POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING.
CAT I 1.4.9	FULL FACE MASK, BALANCED REGULATOR, COMMERCIAL	DIVING SYSTEMS INT'L	EXO-26BR	EXO-26BR IS AUTHORIZED FOR USE IN SCUBA MODE ONLY. AUTHORIZED TO 190 FSW. AUTHORIZED FOR USE IN 37 DEGREE FAHRENHEIT WATER AND COLDER WHEN MATED WITH FIRST STAGE OF APPROVED POSEIDON ODIN COLD WATER REGULATOR. AN APPROVED SECOND STAGE COLD WATER OCTOPUS REGULATOR SHALL ALSO BE USED WITH THE FIRST STAGE OF ALL COLD WATER EXO-26BR REGULATOR SYSTEMS. (6/9/99)

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1.5 REGULATORS, GENERAL SERVICE				
CAT I 1.5.1	REGULATOR, 2ND STAGE & FULL FACE MASK GENERAL COMMERCIAL OR 9C-4220-01-330-6137	AGA	AGA SPM-1AGA	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER, WHEN MATED WITH THE 1ST STAGE OF A GENERAL SERVICE SCUBA REGULATOR LISTED HEREIN.
CAT I 1.5.1.1	AMBIENT AIR BREATHING DEVICE FOR USE WITH MK-IIG AGA FULL FACE MASK; COMMERCIAL	TECH ONE, INC	55-300USN	AMBIENT AIR BREATHING DEVICE (OR GILL VALVE) IS AN AUTHORIZED MODIFICATION TO THE AGA MK-IIG FFM THAT ALLOWS BREATHING OF AMBIENT AIR WHILE AT REST ON SURFACE. LIMITED TO SCUBA APPLICATIONS. UNIT LEVEL MODIFICATION OF AGA FACEPLATE NOT AUTHORIZED. CONTACT MANUFACTURER. MK-IIG AGA WITH GILL VALVE MOD IS AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER OR WARMER.
CAT I 1.5.2	REGULATOR, GENERAL COMMERCIAL	BEAUCHAT	VTR-8/VX-10	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.3	REGULATOR, GENERAL COMMERCIAL 9C-4220-01-041-2635	MARES	MR-12 VOLTREX	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER.
CAT I 1.5.3.1	REGULATOR, GENERAL COMMERCIAL	MARES	MR-12 ORBITER	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT AND WARMER WATER. (6/9/99)
CAT I 1.5.4	REGULATOR, GENERAL COMMERCIAL	SCUBA PRO	MK10/G-250	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. NO LONGER MANGACTURED BUT AUTHORIZED FOR CONTINUED USE. (6/9/99)
CAT I 1.5.5	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	MICRA P/N 1001.00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)
CAT I 1.5.6	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	PRO DIVER P/N 1021-95	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. NO LONGER MANUFACTURED, BUT CONTINUED AUTHORIZED FOR USE. (6/9/99)
CAT I 1.5.7	REGULATOR, GENERAL COMMERCIAL 9C-4220-00-141-1902	AQUALUNG (US DIVERS)	SE-2 PART # 1074-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES. (6/9/99)
CAT I 1.5.8	REGULATOR, GENERAL 9C-4220-01-294-4106	AQUALUNG (US DIVERS)	SE-2 SUPREME PART # 1076-90	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. RECOMMENDED USE OF LOW TEMPERATURE CONVERSION KIT (PN 1076-95) FOR DIVING IN WATER BETWEEN 38-48 DEGREES. (6/9/99)
CAT I 1.5.9	REGULATOR, GENERAL 1H-1940-01-105-3069 APL:990010053	AQUALUNG (US DIVERS)	CONSHLF XI PART # 1081-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. BOX BOTTOM PART NUMBERS 1085-50 OR 1049-22 AUTHORIZED. (6/9/99)

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1.5 REGULATORS, GENERAL SERVICE (CONTINUED)				
CAT I 1.5.10	REGULATOR, GENERAL APL: 990010019 1H-4220-01-388-1030	AQUALUNG (US DIVERS)	CONSHLF XIV SUPREME PART # 1088-00	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)
CAT I 1.5.12	REGULATOR, GENERAL COMMERCIAL	AQUALUNG (US DIVERS)	SEA-2	AUTHORIZED TO 190 FSW AND 38 DEGREES FAHRENHEIT WATER AND WARMER. (6/9/99)
1.6 REGULATORS, SPECIAL SERVICE FULL FACE MASK				
CAT I 1.6.1	FULL FACE MASK COMMERCIAL NATO STOCK NUMBER 4220-99-533-3686	BRITISH SCUBA	BRITISH SCUBA FULL FACE MASK, "WIDE VISION FULL FACE MASK"	AUTHORIZED TO THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.
CAT I 1.6.2	FULL FACE MASK COMMERCIAL	CRESSI-SUB S.P.A., GENOA, ITALY	CRESSI-SUB FULL FACE MASK, PN HA750089	AUTHORIZED FOR USE WITH THE MK-16, MOUTH PIECE MATED TO THE MASK. AUTHORIZED FOR THE SAME DEPTH AS THE OPEN CIRCUIT SCUBA REGULATOR THAT IS FITTED TO THE MASK.
CAT I 1.6.3	FULL FACE MASK, BALANCED REGULATOR, COMMERCIAL	DIVING SYSTEMS INT'L	EXO-26BR	EXO-26BR IS AUTHORIZED FOR USE IN SCUBA MODE ONLY. AUTHORIZED TO 190 FSW WHEN MATED WITH ANU LISTED FIRST STAGE REGULATOR. REFER TO CONTROL # 1.4.9 FOR COLD WATER APPLICATION. (6/9/99)
1.7 SPECIAL ACCESSORY ITEMS				
CAT II 1.7.1	KNIFE, NON-MAG, 1H-1385-00-892-6082	STOCK ITEM	NON-MAGNETIC, EOD 700-1765159	FOR NON-MAGNETIC AND NON-SPARKING APPLICATIONS.
CAT II 1.7.2	MASK, 9C-4220-01-358- 4250	AQUALUNG (US DIVERS)	MASK, NON- MAGNETIC DIVER (5029-50)	EOD NON-MAGNETIC SCUBA FACE MASK, AUTHORIZED FOR EOD AND SPECWAR DIVING REQUIRING NON-MAG SCUBA ACCESSORIES. (6/9/99)
CAT II 1.7.3	NAVSEA PEO MIW/PMS- EOD CONTROLLED ITEM	EOD COORDINATED	MK 1 EOD DRY SUIT WEIGHT VEST	EOD CONTROLLED ITEM.
CAT I 1.7.4	GAUGE, TIMER/DEPTH	BEUCHAT	DIGITAL MCD-1	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE. FOR USE WITH THE MK 16 UBA.

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1.8 UBA SET, CLOSED & SEMI-CLOSED CIRCUIT				
CAT I 1.8.1	UBA NAVSEA PEO MIW/PMS-EOD CONTROLLED ITEM	MILITARY SPECIFICATION	MK 16, MOD 0 UNDERWATER BREATHING APPARATUS (UBA)	CLASS CERTIFIED ITEM, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 16 O&M MANUAL, NAVSEA SS600-AH-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF PEO-MIW CODE PMS-EOD, (301) 743-6837. MK 24 FFM IS AUTHORIZED FOR USE WITH THE MK 16.
CAT I 1.8.2	UBA NAVSEA PMS325J CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 0 (LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-AJ-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF NAVSEA CODE PMS 325J, (703) 602-9032, DSN 332-9032.
CAT I 1.8.3	UBA NAVSEA PMS325J CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 1 (LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, NON-MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-A2-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF NAVSEA CODE PMS 325J, (703) 602-9032, DSN 332-9032.
CAT I 1.8.4	UBA USMC CONTROLLED ITEM	U.S. DRAEGER, INC.	MK-25, MOD 2 (ENHANCED LAR 5) UNDERWATER BREATHING APPARATUS	CLASS CERTIFIED ITEM, MAGNETIC VERSION, OPERATIONAL DEPTH/DURATION PER MK-25 MOD 0 O&M MANUAL, NAVSEA SS600-AJ-MMA-010. THIS SYSTEM IS UNDER THE COGNIZANCE OF USMC SYSCOM CODE CBGR, (703) 784-3472, DSN 278-3474. NAVY COG IS PMS 325 (703) 602-9032.

Note: All CAT III are diver preference

1.9 SCUBA ACCESSORIES, GENERAL

CAT III 1.9.1	WEIGHT BELTS, COMMERCIAL AND NSN STOCK ITEMS	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE WEIGHTS AND BELTS OR NSN STOCK ITEMS AS IS MOST COST EFFECTIVE.
CAT III 1.9.2	COMPASS, UNDERWATER, COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK COMPASSES FOR USE IN DIVING APPLICATIONS
CAT III 1.9.3	FINS, SWIM, COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK SWIM FINS FOR USE IN DIVING OPERATIONS.
CAT III 1.9.4	KNIFE, DIVER'S COMMERCIAL OR STOCK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STANDARD STOCK KNIVES FOR USE IN DIVING APPLICATIONS.

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1.9 SCUBA ACCESSORIES, GENERAL (CONTINUED)

CAT III 1.9.5	FACE MASK SCUBA, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK SCUBA FACE MASKS.
CAT III 1.9.6	SNORKEL, SCUBA, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK SNORKELS FOR DIVING OPERATIONS.
CAT III 1.9.7	WATCHES, UNDERWATER AND TOPSIDE USE, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK WATCHES FOR UNDERWATER AND TOPSIDE USE. CONVENTIONAL AND DIGITAL UNDERWATER AND STOP TYPE WATCHES SHALL HAVE ELAPSED TIME FEATURE. INDIVIDUAL UNIT COST SHALL NOT EXCEED \$300.
CAT III 1.9.8	DEPTH, GAUGE, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK DEPTH GAUGES. ALL DEPTH GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.9	GAUGE, SUBMERSIBLE SCUBA TANK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK SUBMERSIBLE SCUBA TANK GAUGES. SCUBA TANK GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.10	GAUGE, TOPSIDE SCUBA TANK	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK TOPSIDE SCUBA TANK GAUGE ASSEMBLIES. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF THE TANKS TO BE MEASURED. GAUGES <u>SHALL BE MAINTAINED</u> IAW CURRENT PMS.
CAT III 1.9.11	GAUGE, TOPSIDE FILLER AND GAUGE	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK TOPSIDE SCUBA TANK FILL/GAUGE ASSEMBLIES. GAUGES AND MANIFOLD ASSEMBLY SHALL MEET OR EXCEED WORKING PRESSURE OF CHARGING SYSTEM ATTACHED TO. GAUGES FOR SCUBA TANK CHARGING <u>SHALL BE</u> <u>MAINTAINED</u> IAW CURRENT PMS.

1.10 VEHICLE, DIVER PROPULSION

CAT II 1.10.2	DPV, COMMERCIALY AVAILABLE	<i>FARALLON USA, INC.</i>	MK V, MK VI	NOW BEING SUPPORTED BY FARALLON USA INC; DIVER PROPULSION VEHICLES. PO BOX 450505, ATLANTA, GA 31145 <i>PHONE (770) 414-0550. (6/9/99)</i>
CAT II 1.10.3	DPV, COMMERCIALY AVAILABLE	<i>FARALLON USA, INC.</i>	MK VIII & <i>MK VIII-S</i>	FOLLOW ON REPLACEMENT MODEL TO OLDER FARALLON MODELS MK V AND MK VI. <i>MK VIIIS IS A SMALLER VERSION OF THE MK VIII (12/8/99)</i>
CAT II 1.10.4	DPV, COMMERCIALY AVAILABLE	TECKNA	DV-3X	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.

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1.10 VEHICLE, DIVER PROPULSION (CONTINUED)				
CAT II 1.10.5	DPV, COMMERCIALY AVAILABLE	TECKNA	MIL UNIT MOD S- 5100	NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 1.10.6	DIVER PROPULSION DEVICE (DPD) MARCORSYSCOM CONTROLLED ITEM	N/A	MOD 0 (SHARC)	MARINE CORPS SYSTEMS COMMAND (CBG) CONTROLLED ITEM UNDER THE COGNIZANCE OF USMC SYSCOM CODE CBGR, (703) 784-3472, DSN 278-3474.
CAT I 1.10.7	SWIMMER DELIVERY VEHICLE (SDV) NAVSEA CONTROLLED ITEM	N/A	MK VIII MOD 0/1	NAVAL SEA SYSTEMS COMMAND CONTROLLED ITEM UNDER COMNAVSEASCOM <i>PMS 325J</i> COGNIZANCE, (703) 602-9032, DSN 332-9032. <i>(9/29/99)</i>

Enclosure (1)
Section 001

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 002

**Changes are in Italics and Bolded*

THERMAL PROTECTION EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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2.1 WET SUITS

CAT III 2.1.1	WET SUITS COMMERCIAL OR STOCK ITEMS	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK, STANDARD SIZED OR CUSTOM FITTED WET SUITS. STRONG CONSIDERATION SHALL BE GIVEN TO OUTFITTING DIVERS THAT MUST OPERATE IN COLD WATER WITH CUSTOM FITTED WET SUITS AND ACCESSORIES. ADEQUATE THERMAL PROTECTION IS A DIVER SAFETY ISSUE IN COLD WATER.
CAT III 2.1.2	WET SUIT, ACCESSORIES COMMERCIAL OR STOCK ITEMS	VARIOUS	GLOVES, VESTS, BOOTIES, HOODS, LINERS, POCKETS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK WET SUIT ACCESSORIES. STRONG CONSIDERATION SHALL BE GIVEN TO OUTFITTING DIVERS THAT MUST OPERATE IN COLD WATER WITH CUSTOM FITTED WET SUIT ACCESSORIES. ADEQUATE THERMAL PROTECTION IS A DIVER SAFETY ISSUE IN COLD WATER.

GENERAL NOTE (1): LOCAL COMMAND LEVEL DRY SUIT INDOCTRINATION TRAINING AND FAMILIARIZATION DIVE REQUIRED PRIOR TO USE. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK. WHEN DIVING SCUBA, CONVENTIONAL LIFE PRESERVER OR BUOYANCY COMPENSATOR SHALL BE USED WITH THE VVDS.

GENERAL NOTE (2): DRY SUITS LISTED ARE AUTHORIZED FOR USE WITH THE MK-21, WITH INHERENT NECK DAM TO SUPPORT CONTAMINATED/COLD WATER DIVING. INFLATION OF VVDS WHEN USED WITH MK 21 MOD 1 LIGHTWEIGHT DIVING OUTFIT SHALL BE ACCOMPLISHED BY CONNECTING TO LP PORT ON THE SIDE BLOCK. DRY SUITS ARE CAT-III WHEN USED IN NON-CONTAMINATED WATER APPLICATIONS OR WHEN NOT EQUIPPED WITH NECK DAM.

2.2 DRY SUITS

CAT III 2.2.1	DRY SUITS, COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STANDARD STOCK DRY SUITS AND ACCESSORIES. THE SUITS LISTED HERE DO NOT REPRESENT A COMPLETE LIST OF ALL ON THE COMMERCIAL MARKET. COMMANDS MAY SELECT FROM WHAT'S AVAILABLE ON THE COMMERCIAL MARKET AS BEST MEETS THEIR OPERATIONAL NEEDS.
CAT III 2.2.2	DRY SUIT, FRONT ENTRY, 3HD-4220-01- 349-2411 (SMALL) / 2412 (MEDIUM) / 2413 (LARGE)	TYPHOON WATERWEARS LTD	111700.1/2/3	GENERAL NOTE (1) APPLIES.14
CAT III 2.2.3	DRY SUIT 9C-4220-00-516-3385 XLARGE 3386 - LARGE 3388 - MED	POSEIDON INDUSTRY AB	UNISUIT MODELS 2209	GENERAL NOTE (1) APPLIES.
CAT III 2.2.4	SUIT, DRY, VARIABLE 1HS0000-LL-CJA-5742	STOCK ITEM	SUIT, DRY, VARIABLE	GENERAL NOTE (1) APPLIES.

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THERMAL PROTECTION EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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2.2 Dry Suits (Continued))

CAT III 2.2.5	SUIT, DRY COMMERCIAL	DIVING UNLIMITED INTERNATIONAL	CF200X	GENERAL NOTE (1) APPLIES.
CAT II 2.2.6	EOD DRY SUIT, EOD CONTROLLED ITEM	EOD	MK 1 MOD 1	LOW-MAGNETIC SIGNATURE, MEETS MIL-M-19595. EOD CONTROLLED ITEM.
CAT II 2.2.7	DRY SUIT COMMERCIAL	AVON	1800 STANDARD HEAVY DUTY	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.8	DRY SUIT COMMERCIAL	NOKIA	THE BOSS	GENERAL NOTES (1) AND (2) APPLY <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (9/29/99)</i>
<i>CAT II 2.2.8.1</i>	<i>DRY SUIT COMMERCIAL</i>	<i>AMRON</i>	<i>AHD-1600</i>	<i>GENERAL NOTES (1) AND (2) APPLY (9/29/99)</i>
CAT II 2.2.9	DRY SUIT COMMERCIAL	TYPHOON	PROSUIT PRO FRONT ENTRY	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.10	DRY SUIT, COMBAT SWIMMERS SUIT, COMMERCIAL	U.S.I.A. UNDERWATER EQUIPMENT SALES	MODEL 3651 COMBAT SWIMMERS SUIT	GENERAL NOTES (1) AND (2) APPLY
CAT II 2.2.11	DRY SUIT COMMERCIAL	TRELLEBORG VIKING, INC.	HEAVY DUTY WITH SL17 YOKE	GENERAL NOTES (1) AND (2) APPLY
CAT III 2.2.12	DRY SUIT COMMERCIAL	POSEIDON	POSEIDON EXCLUSIVE DRY SUIT, UNISUIT EXCLUSIVE	GENERAL NOTE (1) TESTED AND RECOMMENDED BY NEDU.
CAT III 2.2.13	DRY SUIT COMMERCIAL	GATES RUBBER COMPANY LIMITED	PRO-AM 1050 PRO-AM 1500	GENERAL NOTE (1) BOTH OF THESE SUITS HAVE BEEN TESTED AND RECOMMENDED BY NEDU. THE GATES RUBBER COMPANY LIMITED, EDINBURGH ROAD, DUMFRIES, SCOTLAND. DG1 1QA

2.3 Diver Heater Equipment

CAT II 2.3.1	HOT WATER HEATER, COMMERCIAL APL: 023150003	DIVING UNLIMITED INTERNATIONAL (DUI)	ECONO: 31020-01	
CAT II 2.3.2	HOT WATER HEATER, APL: 023150002	DIVING UNLIMITED INTERNATIONAL (DUI)	GULF: 31007-00	

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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
2.3 Diver Heater Equipment (Continued)				
CAT II 2.3.3	HOT WATER HEATER, COMMERCIAL	MARVEL	MILITARY MONKEY HEATER PART NUMBER PWH-100/3	NOT AUTHORIZED FOR OPERATIONS DEEPER THAN 100 FSW. <i>MODIFICATIONS TO MILITARY MONKEY HEATER INCLUDE HARD MOUNTING OF THE FUEL REGULATOR, SEALED FUEL SOLENOID, 20 FOOT POWER CORD, GFI, AND WATER-RESISTANT CONTROL BOX. UNMODIFIED MONKEY HEATERS CURRENTLY IN SERVICE ARE APPROVED FOR CONTINUED USE. (8/26/99)</i>
CAT II 2.3.3.1	HOT WATER HEATER, COMMERCIAL	D.H.B PRODUCT DEVELOPMENT CO., INC	D.H.B. 690-R FUEL FIRED DIVERS HOT WATER HEATER	DHB 690-R IS SUPPLIED WITH A GFI SUITABLE FOR USE ON COMMERCIAL UTILITY POWER ONLY. THE INSTALLED GFI MUST BE REPLACED WITH AN APPROVED 15 AMP GFI PRIOR TO USE. DO NOT PLACE GFI'S IN PARALLEL.
CAT II 2.3.3.2	HOT WATER HEATER, COMMERCIAL ELECTRIC	DIVING UNLIMITED INTERNATIONAL LTD	DIVER HEATER MODEL K15B-P, ELECTRIC HOT WATER HEATER	MUST BE USED WITH AN APPROVED GFI. APPROVED FOR SATURATION DIVING.
CAT I 2.3.4	INSPIRED GAS HEATER SPLITTER BLOCK, COMMERCIAL	VARIOUS	NEDU DWG NO. 88- 46)	USED TO SPLIT HOT BETWEEN WATER SUIT AND DSI HOT WATER SHROUD.
CAT II 2.3.4.1	SCALD, SAFE VALVE, COMMERCIAL	MARVEL	MARVEL SCALD SAFE VALVE	THE SCALD SAFE VALVE IS INSTALLED ON THE DIVER'S END OF THE UMBILICAL. THE VALVE STOPS THE FLOW OF WATER IF IT REACHES 110 DEGREES AND RESTARTS THE FLOW AT 95 DEGREES.
CAT I 2.3.5	INSPIRED GAS, HEATER COMMERCIAL	KINERGETICS	3375-3	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. NOT FOR USE WITH THE MK-21.
CAT III 2.3.6	HOT WATER GLOVES, COMMERCIAL 4220-01-174-7875 DUI PN 35008-01 -LARGE 4220- 01-174-7876 DUI PN 35008-01 – MEDIUM	DIVING UNLIMITED INTERNATIONAL (DUI)	35008-01L	THE TWO NSN'S CORRESPOND TO DIFFERENT SIZES. COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE AND STOCK HOT WATER GLOVES FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.7	HOT WATER HOOD,COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	35000-11	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER HOODS FOR USE IN DIVING APPLICATIONS.
CAT II 2.3.8	HOT WATER HOSE FITTINGS, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE HOT WATER HOSE FITTINGS, THEY MUST BE MANUFACTURED SPECIFICALLY FOR THAT APPLICATION.
CAT II 2.3.9	HOT WATER HOSE, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	31027-000	

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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
2.3 Diver Heater Equipment (Continued)				
CAT II 2.3.10	HOT WATER HOSE, COMMERCIAL	GATES	ECONOFLEX	
CAT III 2.3.11	HOT WATER BOOTIES/BOOTS, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	SOFT SOLE:35009- 01 HARD SOLE:35009- 02	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE HOT WATER BOOTIES/BOOTS FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.12	HOT WATER SUIT LINER, COMMERCIAL	DIVING UNLIMITED INTERNATIONAL (DUI)	35006-000	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STOCK HOT WATER SUIT LINERS FOR USE IN DIVING APPLICATIONS.
CAT III 2.3.13	HOT WATER SUIT, COMMERCIAL OR STOCK ITEM 1HS0000-LL-CJ7-1074— REG 1HS0000-LL-CJ7-1075— LARGE 1HS0000-LL-CJ7-1073— MED 1HS0000-LL-CJ7-1072— SMALL	DIVING UNLIMITED INTERNATIONAL (DUI)	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALLY AVAILABLE OR STOCK HOT WATER SUITS FOR USE TO SUIT COMMAND DIVING APPLICATIONS.

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DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 003

**Changes are in Italics and Bolded*

SURFACE SUPPLIED DIVING EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
3.1 Diving Harness / Boots				
CAT II 3.1.1	DIVER'S SAFETY HARNESS, COMMERCIAL OR 9C-4220-01-392-0301	MAR-VEL	DWG #: 592-6318020 OR MARVEL PART #: BH200 B/NS	
CAT II 3.1.2	INTEGRATED DIVERS VEST, 9C-4220-01-045- 2194 (CANCELED)	MORRIS DIVING EQUIPMENT	(IDV) MIL-V- 24690(SH) OR 4666989	NSN CANCELED WITHOUT REPLACEMENT. NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.1.3	DIVE HARNESS, COMMERCIAL	ZEAGLE	MILITARY VEST PN 7050-AM	FOR SURFACE SUPPLY DIVING ONLY. REQUIRES JOCKING STRAP AND "D" RINGS ON BOTH SIDES AND WAIST.
CAT II 3.1.5	DIVE HARNESS COMMERCIAL	ATLANTIC DIVING EQ (ADE)	PN# 16509	
CAT II 3.1.6	DIVE HARNESS, COMMERCIAL	DIVEX	PN# DE394K OR DE400	DE394K HOLDS UP TO 61 LBS. NON-DITCHABLE WEIGHT. DE400 HOLDS UP TO 81 LBS. OF DITCHABLE WEIGHT.
CAT III 3.1.7	DIVE BOOTS, COMMERCIAL	VARIOUS	VARIOUS	MARVEL, SERVUS BOOT PART NUMBER 21622, FULL SIZES 6-13; VIKING, VIKING WELTER BOOT" (6/9/99)

3.2 Umbilical Hose

GENERAL NOTE: UMBILICALS SHALL BE ORDERED AND ASSEMBLED UTILIZING GUIDANCE CONTAINED IN US NAVY UMBILICAL DESCRIPTION, MATERIALS AND ASSEMBLY MANUAL, SS521-AH-PRO-010. WHEN ORDERING THE AQUALITE SPIRAL DESIGNED UMBILICAL MUST BE FACTORY TWISTED AND INCORPORATE A COMBINATION STRENGTH/COMMUNICATION CABLE P/N CAF0334. CONTACT NAVSEA 00C3, COMM (703) 607-2766 DSN 327-2766 FOR ASSISTANCE.

CAT I 3.2.1	BREATHING AIR HOSE, COMMERCIAL	FURON, SYNIFLEX DIVISION	34BA	PRODUCT ID: SYNIFLEX 34BA-06 3/8 INCH ID, WORKING PRESSURE 250 PSI.
CAT I 3.2.2	BREATHING AIR HOSE, COMMERCIAL SF9-4730-01-27-2249	GATES	33HB	PRODUCT ID: 33HB - 3/8 INCH ID, WORKING PRESSURE 1,125 PSI.
CAT I 3.2.3	BREATHING AIR HOSE, COMMERCIAL	AQUALITE & AMRON	HAL 0106	PRODUCT ID: HAL 0106 - 3/8 INCH ID, WORKING PRESSURE 500 PSI. (9/29/99)

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SURFACE SUPPLIED DIVING EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
3.3 Umbilical Powered Underwater Lights				
CAT III 3.3.1	UMBILICAL POWERED UW LIGHT, COMMERCIAL	AQUA AIR INDUSTRIES INC.	AA1-MINI	NO MODIFICATIONS TO FFM UBA/HELMET ARE AUTHORIZED. SUPPLIED BY 12 VDC POWER SUPPLY, NO GFI REQUIRED. 1925 INDUSTRIAL BLVD., HARVEY, LA 70058 (504) 348-8088
CAT II 3.3.2	UMBILICAL POWERED UW LIGHT, COMMERCIAL	SIMRAD – OLD NAME: HYDRO PRODUCTS (LATER HYDROVISION)	HQ-250/800647-01 250 WATTS/120 VOLTS AC	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 3.3.3	UMBILICAL POWERED UW LIGHT, COMMERCIAL	SIMRAD - OLD NAME: HYDRO PRODUCTS (LATER HYDROVISION)	HQ-500/800647-02 500 WATTS/120 VOLTS AC	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 3.3.4	UMBILICAL POWERED UW LIGHTS, COMMERCIAL	SIMRAD - OLD NAME: HYDROVISION	DIVER HELMET MOUNTED LIGHT SYSTEM (DHMLS) DWG # 998-2005 REV A	(1) AC POWERED UNDERWATER LIGHTS SHALL BE PROTECTED BY A GROUND FAULT INTERRUPTER INSTALLED BETWEEN THE POWER SUPPLY AND THE UNDERWATER LIGHT. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL. (2) PRODUCT ID & DEPOT LEVEL REPAIRS: DHMLS O & M MANUAL PUB # 998-20005. SIMRAD, 1225 STONE DRIVE, SAN MARCOS, CA 92069, PH (619) 471-2223
3.4 Diving Helmets and Other Authorized for Use and Class Certified Systems				
CAT I 3.4.1	SURFACE SUPPLIED DIVING MASK, NAVSEA CONTROLLED	INTERSPIRO	MK 20	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 20 O&M MANUAL S600-AK-MMO-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767. ITEM 1.4.8, MK IIG AGA, IS AN AUTHORIZED MASK WITH THIS CONFIGURATION, BUT THE POSITIVE PRESSURE CONFIGURATION SHOULD BE USED IN POTENTIALLY CONTAMINATED ATMOSPHERES SUCH AS ENCLOSED SPACE DIVING. (11/17/99)
CAT I 3.4.2	SURFACE SUPPLIED DIVING HELMET, NAVSEA CONTROLLED APL: 990010096	DIVING SYSTEMS INTERNATIONAL (DSI)	MK 21	CLASS CERTIFIED, OPERATIONAL DEPTH/DURATION CAPABILITY PER MK 21 O&M MANUAL S6560-AG-OMP-010 (REV 1). PROGRAM MANAGER IS NAVSEA CODE 00C33, (703) 607-2767, DSN 327-2767.

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3.4 Diving Helmets and Other Authorized for Use and Class Certified Systems (Continued)

<i>CAT I</i> 3.4.3	MANIFOLD BLOCK ASSEMBLY, COMMERCIAL	DIVING SYSTEMS INTERNATIONAL (DSI)	MANIFOLD BLOCK ASSEMBLY	APPROVED FOR USE WITH UBA MK 20 FOR PROVIDING EGS CAPABILITY WITHIN MK 20 OPERATING LIMITS.
3.4.4	HOSE, QUICK DISCONNECT, STAINLESS STEEL, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-025 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.
<i>CAT I</i> 3.4.5	HOSE, QUICK DISCONNECT, BRASS, COMMERCIAL	DIVING EQUIPMENT COMPANY OF AMERICA (DECA)	DE 255-020 NS	APPROVED FOR USE WITH UBA MK 21 MOD 1 FOR EGS WHIP. APPROVED FOR USE WITH UBA MK 20 MOD 0 FOR EGS WHIP WHEN USED WITH DSI MANIFOLD BLOCK ASSEMBLY.

3.5 Diver Battery Powered Lights, Helmet and Hand Held

CAT III 3.5.1	BATTERY POWERED LIGHTS COMMERCIAL OR STOCK ITEM	VARIOUS	VARIOUS	COMMANDS ARE AUTHORIZED TO PURCHASE COMMERCIALY AVAILABLE OR STOCK BATTERY POWERED UNDERWATER LIGHTS. POWER SUPPLY/BATTERIES NOT TO EXCEED 30 VDC.
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3.6 Communications Systems and Accessories

CAT II 3.6.1	HYDROCOM UW COMMUNICATION SYSTEM 7H-4220-01-223-0051 APL:990010071	ALLIANT TECH SYSTEMS INC.	HCOM 1001000	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.2	AMCOM III COMMERCIAL	AMRON INTERNATIONAL DIVING SUPPLY, INC.	MODEL 2830/24M	MODEL 2830/24M IS 3 DIVER SYSTEM. USE PN# 1406A TO ORDER MK 20 COMMS ASSEMBLY FOR AMCOM III. PN# 28FDH IS WIRELESS TENDER/SUPERVISOR HEADSET SYSTEM. HELMETS MUST BE OUTFITTED WITH AMRON EARPHONES AND MICS., NOT COMPATIBLE WITH HYDROCOM OR HELLE EARPHONES/MICS. WHEN USING MARSH MARINE FITTINGS, WIRING CONFIGURATION VERSION A OR B MAY BE USED.(9/29/99)
CAT II 3.6.3	HELIUM SPEECH UNSCRAMBLER 7H-5830-01-117-5432 APL:272540002	HELLE ENGINEERING INC.	3315S	
CAT II 3.6.3.1	AMCOM II HELIUM SPEECH UNSCRAMBLER COMMERCIAL	AMRON INTERNATIONAL DIVING SUPPLY, INC	2825/24/26-MS AC POWER 2825/28/26-MS BATTERY POWERED	(9/29/99)

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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
3.6 Communications Systems and Accessories (Continued)				
CAT II 3.6.4	HELIUM SPEECH UNSCRAMBLER 7H- 4220-01-043-5339	HELLE ENGINEERING INC.	(3315)	
CAT II 3.6.5	MIC / EARPHONE SET COMMERCIAL & STOCK ITEM	DIVING SYSTEMS INTERNATIONAL	PN# 515-030	DSI PN# 515-030 INCLUDES EARPHONES & MIC. RIGHT EARPHONE IS PN# 515-005 / NSN 5965-01-263-6966, LEFT EARPHONE IS PN#: 515-006 / NSN 5965-01-263-6965, MIC IS PN# 515-009 / NSN 5965-00-843-9957.
CAT II 3.6.6	DYNAMIC HEAD PHONES COMMERCIAL	EFCOM	DAR 1000 MOD 2	FOR RECOMPRESSION CHAMBER USE ONLY. NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.7	MICROPHONE, SET, 1H 5965-01-119-8682	HELLE ENGINEERING LTD	3455, 10780, 10782	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 3.6.8	MICROPHONE 1HD0000- LL-CB1-4624	OCEAN TECHNOLOGY SYSTEMS	1 PMC	FOR USE WITH INTERSPIRO AGA DIVATOR II FFM.
CAT II 3.6.9	MICROPHONE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	SDV 16	FOR USE WITH INTERSPIRO AGA DIVATOR II FFM AND CLOSED CIRCUIT RIG.
CAT II 3.6.10	MICROPHONE, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	M 14	
CAT II 3.6.11	MICROPHONE, ELEMENT 9N-5965-00- 843-9957 APL:990010071	OCEAN TECHNOLOGY SYSTEMS	M 101/A1C	COMPATIBLE WITH HYDROCOM SYSTEM ONLY.
CAT II 3.6.12	STRENGTH/ COMMUNICATIONS CABLE , COMMERCIAL	STRENGTH/ COMMUNICATIONS CABLE/NEDU CODE 03D	STRENGTH/ COMMUNICATIONS CABLE	NAVSEA DWG's 592-5939961, 592-5939962 AND 592-5939963 REFER.

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RECALL DEVICES

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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4.1 Recall/One-Way Communicators

CAT II 4.1.1	DIVER RECALL SYSTEM, COMMERCIAL	BENTOS, INC.	MODEL 4501B	WATERBORNE DIVERS SHOULD REMAIN SIX FEET FROM TRANSDUCER. <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/29/99)</i>
CAT II 4.1.2	HELLE BROADCASTER, COMMERCIAL	HELLE ENGINEERING LTD	MODEL 3510	
CAT II 4.1.3	DIVER AUDIO RECALL/ HYDROPHONE SYSTEM, COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	DRS-100 AND DRS- 100B	MODEL DRS-100 NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE. MODEL DRS-100B REPLACES MODEL DRS-100.
CAT II 4.1.4	ACOUSTIC DIVER SIGNALING DEVICE, COMMERCIAL	OCEAN ENGINEERING ENTERPRISES	DSD-6E	IF THE DSD-6E IS TO BE USED IN AN ENVIRONMENT IN WHICH FLAMMABLE GASES ARE PRESENT, INSTALL A MECHANICAL SWITCH ON THE POSITIVE BATTERY LEAD TO PRECLUDE TERMINAL SPARKING. DISCUSSIONS WITH THE MANUFACTURER INDICATE THAT A SWITCH OPTION MAY BE OFFERED ON FUTURE MODELS. OEE, 1638 COTTONWOOD DRIVE, NORTH CANTON, OHIO 44720, (330) 896-8816

4.2 Recall/One-Way Explosive Communicators

CAT II 4.2.1	AUDIBLE RECALL DEVICE (ARD), 2T-1370- 01-251-5792	PROPELLEX CORP. EDWARDSVILLE, IL	MK 137 MOD 0	NALC 3W92
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4.3 Through Water Communicators

CAT III 4.3.1	COMMERCIAL	EFCOM	SC-125M/SC- 120M/SC 100M SYSTEM	NO LONGER AUTHORIZED FOR PROCUREMENT BUT AUTHORIZED FOR CONTINUED USE. COMPATIBLE WITH AGA FULL FACE MASK.
CAT III 4.3.2	COMMERCIAL	<i>ORCATRON COMMUNICATIONS LTD., DELTA, BC CAN</i>	SCUBAPHONE ORCA RT-2000S SYSTEM	COMPATIBLE WITH INTERSPIRO DIVATOR II FULL FACE MASK. <i>(12/29/99)</i>
CAT III 4.3.3	3H 5820-01-346-4523 APL:990010097	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM SSB- 1000S	BASE STATION, SINGLE SIDE BAND ACOUSTIC TRANSCEIVER
CAT III 4.3.4	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	MK-2 BUDDY PHONE	COMPATIBLE WITH AGA FFM AND MK-20 IN SCUBA MODE

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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
4.3 Through Water Communicators (Continued)				
CAT III 4.3.4.1	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM SSB- 2001	<i>COMPATIBLE WITH AGA FFM, MK 20, AND EXO-26BR IN SCUBA MODE. COMPATIBLE WITH MK 25 MOD 0/2 UBA (P/N 900282-000) (6/9/99)</i>
CAT III 4.3.4.2	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	STX-100	BASE STATION FOR SSB-2001
CAT III 4.3.5	COMMERCIAL AND 1H-5820-01-346-4524 APL:990010097	OCEAN TECHNOLOGY SYSTEMS (OTS)	SSB 1000P/1001P PORTABLE TRANSCIVER STATION	SSB 1000P IS NSN ITEM, SSB 1001P IS COMMERCIAL VERSION.
CAT III 4.3.6	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS (OTS)	AQUACOM, CDK-5P	WALK-ABOUT HEAD PHONE ACCESSORY, CONVERTS SSB-1000D/SSB-1001 AND SSB-1000S COMBINATION TO WALK ABOUT SUPERVISOR HEAD PHONE.
CAT III 4.3.7	COMMERCIAL	SAFARE-CROUZET	ERUS-2B4D & ERUS-2A3	URUS-2B4D IS SURFACE UNIT, URUS-2A3 IS DIVER WORN UNDER WATER UNIT.
CAT III 4.3.8	COMMERCIAL	SUBCOM	MODEL 230D/S	NO LONGER AUTHORIZED FOR PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT III 4.3.9	COMMERCIAL	DIVECOM, INC.	DIVECOM MUC- 100/MUC-2000	MUC-100 IS SURFACE-TO-DIVER COM UNIT, MUC-2000 ALLOWS DIVER-DIVER AND DIVER-TO-SURFACE COMMUNICATION WHEN USED AS A SET WITH MUC-100. THE DIVECOM SC-100 SURFACE WALK-ABOUT HEAD PHONE (CAT III ITEM) MAY ALSO BE USED WITH THIS SYSTEM AS AN ACCESSORY. <i>ORDER MUC-2000A FOR AGA COMPATIBLE COMMUNICATIONS. ORDER MUC-2000E FOR EXO-26BR COMPATIBLE COMMUNICATIONS (6/9/99)</i>
CAT III 4.3.10	COMMERCIAL AND STOCK 9N-5895-01-230-7318 APL:959990002	RJE INTL. INC FORMERLY EFCOM	SCM- 100M/120M/125M	PREVIOUSLY BUILT BY EFCOM. SCM-100M IS DIVER MODULE, SCM-120M IS SURFACE ACCURACY KIT, SCM-125M IS SURFACE MODULE. <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE (12/29/99)</i>
CAT III 4.3.11	COMMERCIAL	<i>ORCATRON COMMUNICATIONS LTD</i>	MODEL 2000- SPPAGM SCUBA PHONE	2000-SPPAGM IS 2 DIVER, 1 SURFACE UNIT SYSTEM. 2000S IS SURFACE UNIT, 2000D IS DIVER UNIT. NATO APPROVED, COMPATIBLE WITH AGA FFM. <i>(12/29/99)</i>
CAT III 4.3.12	COMMERCIAL	OCEAN TECHNOLOGY SYSTEMS	<i>MK 2 DCI TWO DIVER RADIO SET</i>	<i>MK 2-DCI</i> IS SURFACE UNIT, MK 1-D-A IS DIVER UNIT, MK 1-D/S IS WALK ABOUT MIC UNIT. COMPATIBLE WITH AGA FFM. <i>THE MK 1 DCI SURFACE UNIT IS NO LONGER MANUFACTURED.</i>

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CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
4.3 Through Water Communicators (Continued)				
CAT III 4.3.13	COMMERCIAL OR 3H-5820-01-346-4522 APL:990010097	OCEAN TECHNOLOGY SYSTEMS	AQUACOM SSB 1000D OR SSB- 1001/SSB-1001B	SSB 1000D IS OLD DESIGNATION OF SSB-1001. COMPATIBLE WITH AGA FFM. <i>COMPATIBLE WITH AGA FFM AND EXO-26BR IN SCUBA MODE (6/9/99)</i>
CAT III 4.3.14	COMMERCIAL	SUBCOM	230D	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.

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DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 005

**Changes are in Italics and Bolded*

DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
5.1 HEO2, O2 Pump Transfer Systems				
CAT I 5.1.1	BOOSTER PUMP, OXYGEN, COMMERCIAL AND 1H-3655-01-042-3633	HASKEL	26968/55016/55312	NOT FOR PERMANENT INSTALLATION ABOARD SHIP, FOR PORTABLE USE ONLY. NSN ITEM IS MODEL - 26968.
CAT I 5.1.2	GAS TRANSFER SYSTEM, COMMERCIAL OR 7H-4220-01-214-7597 APL:990010051	HASKEL	5367002	PORTABLE UNIT, NOT FOR PERMANENT INSTALLATION ON BOARD SHIP. TWO INDEPENDENT BOOSTER SYSTEMS, (1) O2 & (1) HEO2.
CAT I 5.1.3	O2 TRANSFER PUMP, COMMERCIAL APL: 990010016	AMINCO	AOC 250 & OA 25	
CAT I 5.1.5	O2 TRANSFER PUMP, COMMERCIAL	PPI DIVISION, THE DURIRON COMPANY, INC.	1040-A 3081M	PPI PUMP MODIFIED BY FLUITRON

DIVING AIR COMPRESSOR NOTES: (1) DIVING AIR COMPRESSORS USED TO PROVIDE AIR FOR AFLOAT OR ASHORE DIVING AND/OR HYPERBARIC FACILITIES MAY BE EITHER OIL FREE DESIGN OR SUITABLE FOR USE WITH APPROVED LUBRICANTS.

(2) ALL DIVING COMPRESSORS SHALL BE MULTI-STAGE TYPE WITH INTER COOLER BETWEEN EACH STAGE AND BE FITTED WITH AN APPROPRIATE AIR PURIFICATION/FILTRATION SYSTEM LISTED IN SECTIONS 6.1 OR 6.2 OF THIS DOCUMENT.

(3) PRIME MOVER MAY BE; DIESEL, GASOLINE OR ELECTRIC AS FITS THE SPECIFIC OPERATIONAL REQUIREMENTS OF THE UNIT EMPLOYING THE COMPRESSOR. FOR ELECTRICAL DRIVEN COMPRESSORS THAT MAY BE EMPLOYED OUT DOORS, THE MOTOR CASING SYSTEM SHALL MEET MIL-M-170769E.

(4) ALL DIVING AIR COMPRESSORS SHOULD HAVE THE FOLLOWING BASIC FEATURES: DRY ELEMENT INLET FILTER, MOISTURE SEPARATOR OR AIR PURIFICATION SYSTEM; OIL PRESSURE GAUGE; PRESSURE RELIEF VALVE FOR EACH COMPRESSOR STAGE; LOW OIL PRESSURE SHUTDOWN SWITCH; AUTOMATIC UN-LOADED; AUTOMATIC CONDENSATE DRAIN CAPABILITY; DISCHARGE CHECK VALVE; AND BELT/PULLEY GUARDS.

(5) FOR COMPRESSORS EQUIPPED WITH A VOLUME TANK, THAT TANK SHALL BE BUILT TO AND BE STAMPED IN ACCORDANCE WITH ASME SECTION VIII DIVISION 1 STANDARDS.

(6) ALL HIGH PRESSURE COMPRESSORS (SECTIONS 5.2 & 5.3) SHOULD ALSO BE EQUIPPED WITH: PRESSURE GAUGE FOR EACH STAGE, AFTER COOLER; HIGH TEMPERATURE SHUTDOWN SWITCH, HOUR-METER AND BACK PRESSURE REGULATOR.

(7) PER GENSPECS FOR NAVAL SHIPS S9AA-AA-SPN-010/GENSPEC; FITTINGS CONTAINING CADMIUM (I.E., PLATED FITTINGS AND BOLTS) ARE NOT AUTHORIZED IN SYSTEMS WHERE THE POTENTIAL EXISTS FOR TEMPERATURES OF 400 DEGREES F AND HIGHER, AND MAY COME INTO CONTACT WITH PETROLEUM PRODUCTS. WHEN PURCHASING A DIVING AIR COMPRESSOR SPECIFY THAT ALL FITTINGS/BOLTS BE STAINLESS OR OTHER SUITABLE MATERIAL THAT IS NOT CADMIUM.

(8) IF A COMPRESSOR SYSTEM IS NOT LISTED HEREIN AND A COMMAND DESIRES TO GAIN AUTHORIZATION FOR USE, SUBMIT A FORMAL REQUEST TO NAVSEASYS COM CODE 00C3, INCLUDE COMPLETE COPIES OF MANUFACTURER'S SPECIFICATIONS AND OPERATING PROCEDURES.

(9) ALL COMPRESSORS MUST BE VERIFIED AS PROVIDING DIVERS QUALITY AIR PRIOR TO CONNECTING INTO A DLSS OR USE IN CHARGING DLSS AIR FLASKS.

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DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
5.2 5000 PSIG H. P. Air Compressors				
CAT I 5.2.1	HP AIR COMPRESSOR, COMMERCIAL AND 1H-4310-01-373-1666	MAKO	MODEL 5436/H, 5000 PSI 84 SCFM	GENERAL NOTES APPLY AND MODEL 5436 IS 5,000 PSI VERSION, 5436H DENOTES 6,000 PSI VERSION.
CAT I 5.2.2	HP AIR COMPRESSOR, COMMERCIAL	MAKO	5407BA-D/E/G, 5000 PSI 18.7 SCFM	GENERAL NOTES APPLY AND D = DIESEL, E = ELECTRIC, G = GASOLINE
CAT I 5.2.2	HP AIR COMPRESSOR, COMMERCIAL	MAKO	5407BA-D/E/G, 5000 PSI 18.7 SCFM	GENERAL NOTES APPLY AND D = DIESEL, E = ELECTRIC, G = GASOLINE
CAT I 5.2.3	HP AIR COMPRESSOR, COMMERCIAL AND 9C-4310-00-267-1346	MAKO	BAM 09 & 9700-5409, 5000 30.6 SCFM	GENERAL NOTES APPLY AND DIFFERENT MODEL NUMBERS DENOTE SAME HPAC, DIFFERENT CABINET OPTIONS
CAT I 5.2.4	HP AIR COMPRESSOR, 9E-4310-01-291-8028 (US ARMY ITEM)	BAUER	K-20, 5000 PSI, 22 SCFM	GENERAL NOTES APPLY AND THIS COMPRESSOR IS AUTHORIZED FOR U.S. ARMY USE ONLY.
CAT I 5.2.4.1	HP AIR COMPRESSOR, COMMERCIAL	MAKO	5417, 5000 PSI, 44 SCFM	GENERAL NOTES APPLY.
CAT I 5.2.5	HP AIR COMPRESSOR, COMMERCIAL	MAKO	5415, 5000 PSI, 32 SCFM	GENERAL NOTES APPLY. NO LONGER PRODUCED BUT PARTS STILL AVAILABLE. REPLACED BY THE MAKO 5417
CAT I 5.2.6	HP AIR COMPRESSOR, COMMERCIAL	BAUER	MODEL (ELECTRIC), K220D(DIESEL) 30 CFM	GENERAL NOTES APPLY
CAT I 5.2.7	HP AIR COMPRESSOR, COMMERCIAL	RIX INDUSTRIES	MODEL 4VX, 5000 PSI/27 SCFM	GENERAL NOTES APPLY
CAT I 5.2.8	HP AIR COMPRESSOR, COMMERCIAL	MAKO COMPRESSORS	MODEL BAM06/5406, 5000 PSI 13 SCFM	GENERAL NOTES APPLY AND MODEL NUMBERS REPRESENT SAME COMPRESSOR IN DIFFERENT CABINET PACKAGE OPTIONS.
CAT I 5.2.9	HP AIR COMPRESSOR, COMMERCIAL	RIX	2JS4B-150 5000 PSI, 60-100 SCFM	GENERAL NOTES APPLY AND CAN BE SET FOR 3,000, 4,500 OR 5,000 PSI SERVICE.
CAT I 5.2.10	HP AIR COMPRESSOR, COMMERCIAL & 9E-4310-01-247-2584	BAUER	UTILUS 10-D, E & G, 5000 3.5 SCFM	GENERAL NOTES APPLY AND D = DIESEL, E = ELECTRIC, G = GASOLINE

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DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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5.2 5000 PSIG H. P. Air Compressors (Continued)

CAT I 5.2.11	HP AIR COMPRESSOR, COMMERCIAL	BAUER	MARINER, MODEL E1/3,D, G, 5000 PSI, 7 SCFM	GENERAL NOTES APPLY. COMPRESSOR PREVIOUSLY RATED AS 3000 PSIG SERVICE. ENSURE ALL PIPING, FLASKS AND ASSOCIATED PRESSURE COMPONENTS ARE ALSO RATED TO 5000 PSIG SERVICE PRIOR TO USE.
CAT I 5.2.12	HP AIR COMPRESSOR, COMMERCIAL	MAKO	KA-7, BA-D, 5000 PSI, 8SCFM	GENERAL NOTES APPLY

5.3 4500 and 3000 PSIG H. P. Air Compressors

CAT I 5.3.1	HP AIR COMPRESSOR, 7H-4310-01-256-8510 APL:061050047	RIX	1S3B-6G/E (SA- 6G/E) 4500/3000 PSI, 5SCFM	GENERAL NOTES APPLY, MAY BE PROCURED FOR 4500 OR 3000 PSI SERVICE, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.2	HP AIR COMPRESSOR, 3HD 4310-00-165-4865 APL: 061000003	BAUER	UTILUS-G/E 3000 PSI, 4 SCFM	GENERAL NOTES APPLY, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.3	HP AIR COMPRESSOR, COMMERCIAL	BAUER	MARINER, MODEL E1/3, D, G 3000 PSI, 7 SCFM	GENERAL NOTES APPLY. E1 = SINGLE PHASE ELECTRIC, E3 = 3 PHASE ELECTRIC, D = DIESEL, G = GASOLINE..
CAT I 5.3.4	HP AIR COMPRESSOR, COMMERCIAL	HARDIE-TYNES	3M-133 3000 PSI, 8 SCFM	GENERAL NOTES APPLY. (12/3/99)
CAT I 5.3.5	HP AIR COMPRESSOR, 9C-4310-177-6350	BAUER	KA-14, K14 3000 PSI, 8 SCFM	GENERAL NOTES APPLY.
CAT I 5.3.6	HP AIR COMPRESSOR, COMMERCIAL	MAKO	K14 3000 PSI, 8.4 SCFM	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 5.3.7	HP AIR COMPRESSOR, COMMERCIAL	MAKO	K15 3000 PSI, 14 SCFM	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 5.3.8	HP AIR COMPRESSOR, 1H-4310-01-105-3074	INGERSOLL RAND	10T2 3000 PSI, 14 SCFM	GENERAL NOTES APPLY. MK 31 MOD 0, APL: 069990020
CAT I 5.3.9	HP AIR COMPRESSOR, 9C-4310-01-135-0075 AND COMMERCIAL	BAUER	K15/VT20 3000 PSI, 17 SCFM	GENERAL NOTES APPLY. VT20 IS VARIATION OF BASIC K15 HPAC.
CAT I 5.3.10	HP AIR COMPRESSOR, COMMERCIAL	RIX	3K3B-44 3000 PSI, 20/30 SCFM	GENERAL NOTES APPLY. 20 OR 30 SCFM IS DEPENDENT ON PRIME MOVER. MAY BE USED FOR 4,500 PSI SERVICE.

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DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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5.3 4500 and 3000 PSIG H. P. Air Compressors (Continued)

CAT I 5.3.11	HP AIR COMPRESSOR, 9C-4310-01-172-3140	INGERSOLL RAND	4R15,15T4 3000 PSI, 20 SCFM	GENERAL NOTES APPLY
CAT I 5.3.12	HP AIR COMPRESSOR, 9E-4310-01-227-1408	BAUER	K-20-D 3000 PSI, 22 SCFM	THIS COMPRESSOR IS THE 3000 PSI NAVY VERSION OF ITEM # 5.2.4. THIS VERSION DOES NOT HAVE THE MODIFICATIONS NECESSARY FOR 5000 PSI SERVICE. NOTE THE COMPRESSORS HAVE DIFFERENT STOCK NUMBERS.
CAT I 5.3.13	HP AIR COMPRESSOR, COMMERCIAL	BAUER	FS34,K220 3000 PSI, 34 SCFM	GENERAL NOTES APPLY.
CAT I 5.3.14	HP AIR COMPRESSOR, 1H-4310-00-779-5238 APL: 061900350	VARIOUS	MIL-C-18419, 3000PSI, 60 -100 SCFM	GENERAL NOTES APPLY. THESE MIL-SPEC HPACs ARE FOR PERMANENTLY INSTALLED SHIPBOARD USE.
CAT I 5.3.15	HP AIR COMPRESSOR, COMMERCIAL	BAUER	VARIUS E/G 3000 PSI, 2 SCFM	GENERAL NOTES APPLY, MAY BE PROCURED FOR 5000 OR 3000 PSI SERVICE, G = GASOLINE, E = ELECTRIC POWERED.
CAT I 5.3.16	HP AIR COMPRESSOR, COMMERCIAL	BAUER	CAPITANO 3000 PSI, 5 SCFM	
CAT I 5.3.17	HP AIR COMPRESSOR, COMMERCIAL H.P. COMPRESSOR	MAKO	5405 HP COMPRESSOR 3000 PSI 8 – 10 SCFM	GERERAL NOTES APPLY
CAT I 5.3.18	H.P. COMPRESSOR COMMERCIAL NSN 9C4310-01-107-8006	MAKO	KA7-DA HP COMPRESSOR 3000 PSI 5 SCFM	GERERAL NOTES APPLY

5.4 Medium and Low Pressure Air Compressors

CAT I 5.4.1	MP AIR COMPRESSOR, 7H-4310-01-316-0406	RIX	2JS2B-300 400 PSI, 150 SCFM	GENERAL NOTES APPLY. COMPRESSOR IS OIL FREE DESIGN.
CAT I 5.4.2	MP AIR COMPRESSOR, 9C-4310-01-098-6833 APL: 061500062	QUINCY	5120, W-5120LPH 250 PSIG, 87 SCFM	GENERAL NOTES APPLY.
CAT I 5.4.3	LP AIR COMPRESSOR, COMMERCIAL	AQUA AIR	AA1 325 200 PSIG, 18 SCFM	GENERAL NOTES APPLY. MAY BE USED WITH SEA 00C WRITTEN APPROVAL.

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DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

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DIVER'S BREATHING AIR & MIXED GAS COMPRESSORS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
5.4 Medium and Low Pressure Air Compressors (CONTINUED)				
CAT I 5.4.4	LP AIR COMPRESSOR, COMMERCIAL	ATLAS COPCO	18LT8BE200 PSIG, 20 SCFM	GENERAL NOTES APPLY.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

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**Changes are in Italics and Bolded*

AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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6.1 Compression Air Purification Systems

NOTE: FAILURE TO PERFORM MANUFACTURER REQUIRED MAINTENANCE CAN RESULT IN PREMATURE DLSS COMPONENT FAILURES AND POSSIBLY CAUSE DIVER INJURY.
ENSURE PROPER PMS COVERAGE PRIOR TO USE.

CAT I 6.1.1	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK-420-C	300,000 FT ³ @ 80°F, 80 CFM @ 6000 PSI
CAT I 6.1.2	PURIFICATION SYSTEM, COMMERCIAL	BAUER	P-10	140,000 FT ³ @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.3	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK 10-C	120,000 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.4	PURIFICATION SYSTEM, COMMERCIAL	BAUER	P-5	90,000 FT ³ @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.5	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK-8-C	83,000 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.6	PURIFICATION SYSTEM, COMMERCIAL	INGERSOLL RAND	EAGLE 50LB083	77,600 FT ³ @ 80°F, 20 CFM @ 3000 PSI FOR USE WITH INGERSOLL RAND MODEL 15TH4
CAT I 6.1.7	PURIFICATION SYSTEM, COMMERCIAL	BAUER	P-4	60,000 FT ³ @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.8	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK 5-C	57,400 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.9	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK-4-C	43,000 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.10	PURIFICATION SYSTEM, COMMERCIAL	BAUER	P-2	40,000 FT ³ @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.11	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK 2-C	24,000 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.12	PURIFICATION SYSTEM, COMMERCIAL	BAUER	P-1	15,000 FT ³ @ 70°F, 35-40 CFM @ 5000 PSI
CAT I 6.1.13	PURIFICATION SYSTEM, COMMERCIAL	MAKO	MK-1-C	9,800 FT ³ @ 80°F, 40 CFM @ 6000 PSI
CAT I 6.1.14	PURIFICATION SYSTEM, COMMERCIAL	BAUER	TRIPLEX/P-O	3,200 FT ³ @ 80°F, 35 CFM @ 5000 PSI

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AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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6.2 Air Filtration Systems and Filter Elements

GENERAL NOTE: USE ONLY MANUFACTURER'S RECOMMENDED FILTER ELEMENTS IN AIR FILTRATION SYSTEMS

CAT I 6.2.1	FILTER HOUSING, COMMERCIAL	CONSLER	11714 150 PSIG	FILTER ELEMENT 11714. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE. (12/3/99)
CAT I 6.2.2	FILTER HOUSING, COMMERCIAL	DELTECH	DELGUARD 450 150 PSIG	FILTER ELEMENT 450E, 9Z-2915-00-202-5931 HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.3	FILTER HOUSING COMMERCIAL	DOLLINGER	GP-11-105 150 PSIG	FILTER ELEMENT 2-34. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.4	FILTER HOUSING COMMERCIAL & 9C-2940-01-274-1913	FILTERITE	913794-001 150 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737.
CAT I 6.2.5	FILTER HOUSING COMMERCIAL	KING	2260-1 150 PSIG	FILTER ELEMENT 9326A-241 (1 REQUIRED) & ELEMENT 2430-5-6 (5 REQUIRED). HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.6	FILTER HOUSING COMMERCIAL	PALL	MCD1001G160 150 PSIG	FILTER ELEMENT PFS-1001-ZM. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.7	FILTER HOUSING COMMERCIAL	FACET/QUANTEK	056800-01 180 PSIG	FILTER ELEMENT 041315-12 (12 REQUIRED) AND 636446 (6 REQUIRED). ITEM 636446 (OLD PN 045800-06) IS AVAILABLE UNDER NSN 4330-01-033-7574. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.8	FILTER HOUSING COMMERCIAL	PALL	CCL1001G160H13 200 PSIG	FILTER ELEMENT PFS-1001ZMH13.
CAT I 6.2.9	FILTER HOUSING COMMERCIAL	ARROW	F-518-12 250 PSIG	FILTER ELEMENT EKF518.
CAT I 6.2.10	FILTER HOUSING COMMERCIAL	MONNIER	204-6209-8 250 PSIG	FILTER ELEMENT 26550. HOUSING NOT AUTHORIZED FOR FURTHER PROCUREMENT, BUT AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.11	FILTER HOUSING COMMERCIAL	BALSTON	27/35 300 PSIG	FILTER ELEMENT IS 200-35-BX, CX WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN 27/35 REPLACES OLD PN 20/35A.
CAT I 6.2.12	FILTER HOUSING COMMERCIAL	BALSTON	27/80 300 PSIG	FILTER ELEMENT IS 200-80-BX, CX. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN 27/80 REPLACES OLD PN 20/80A.

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AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
6.2 Air Filtration Systems and Filter Elements (Continued)				
CAT I 6.2.13	FILTER HOUSING COMMERCIAL	FACET	1735530 300 PSIG	FILTER ELEMENT CC-S11C (3 REQUIRED), ELEMENT 041315 (6 REQUIRED). SHOULD BE REPLACED WITH FILTERITE 914050 FILTER. PN CC-S11C REPLACES OLD PN 045800-10 (NSN 4330-00-983-0998). WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.14	FILTER HOUSING COMMERCIAL	FILTERITE	915140-000 300 PSIG	FILTER ELEMENT RV-DUO-FN-10. TYPE LMOVS1OS-3/4, FHP. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.15	FILTER HOUSING COMMERCIAL	FILTERITE	916045-000 300 PSIG	FILTER ELEMENT RV-DUO-FN-10. TYPE LMOVS1OS-3/4, HPNMS-8. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.16	FILTER HOUSING, COMMERCIAL & 4330-01-211-2266	PALL	CCL4001G160H13 300 PSIG	FILTER ELEMENT PFS-1001-ZM. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. PN CCL4001G160H13 REPLACES OBSOLETE PN MOC3003G320H13.
CAT I 6.2.17	FILTER HOUSING, COMMERCIAL	ZURN	C50 77104 300 PSIG	FILTER ELEMENT 74635-29. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.18	FILTER HOUSING, COMMERCIAL	FILTERITE	922849-001/002 400 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER. 2" FLANGE CONNECTION PROVIDES FOR 750 SCFM FLOW FOR VERSION -001. 1 1/2" FLANGE CONNECTION PROVIDES FOR 750 SCFM FLOW FOR VERSION -002.
CAT I 6.2.19	FILTER HOUSING, COMMERCIAL	PALL	FILTER HOUSING CCL4002G160H13 400 PSIG	FILTER ELEMENT PFS-1001-ZM.
CAT I 6.2.20	FILTER HOUSING, COMMERCIAL	FILTERITE	FILTER HOUSING 913563-000 500 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE LMOV1OS-3/4 HP. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.21	FILTER HOUSING, COMMERCIAL	FILTERITE	924044-000 & 913794-001 500 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. BOTH ARE TYPE LMOV1OS-1HPN. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.
CAT I 6.2.22	FILTER HOUSING, COMMERCIAL	KAYDON	991 500 PSIG	FILTER ELEMENT 60L22, 60LS23. KAYDON 991 REPLACES KEENE 950-A.
CAT I 6.2.23	FILTER HOUSING, COMMERCIAL	BALSTON	20/35-801 800 PSIG	FILTER ELEMENT 200-35-BX, CX. NO LONGER AUTHORIZED FOR PROCUREMENT, AUTHORIZED FOR CONTINUED USE.
CAT I 6.2.24	FILTER HOUSING, COMMERCIAL	CUNO	1H1 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10 OR PFS-1001-ZM. WHEN INSTALLING FILTER IN DLSS ENSURE INCOMING AIR GOES TO INSIDE OF FILTER.

SECTION 006 **Changes are in Italics and Bolded*
 AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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6.2 Air Filtration Systems and Filter Elements (Continued)

CAT I 6.2.25	FILTER HOUSING, COMMERCIAL & 4330-01-327-8379	FILTERITE	922193-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-304-3/4.
CAT I 6.2.26	FILTER HOUSING, COMMERCIAL & 4330-01-333-0216	FILTERITE	924045-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-304-3/4.
CAT I 6.2.27	FILTER HOUSING COMMERCIAL	FILTERITE	924364-000 3000 PSIG	FILTER ELEMENT RV-DUO-FN-10, 9C-4330-00-864-7737. TYPE 3LH10-1/2BW-USN.
CAT I 6.2.28	FILTER HOUSING, COMMERCIAL	FILTERITE	926441-000 3000 PSIG	FILTER ELEMENT REV-DFN-10, 9C-4330-00-864-7737. TYPE 3LH10-1/2SW-USN.
CAT I 6.2.29	FILTER HOUSING COMMERCIAL & 9C-4330-01-192-1139	NORMAN	4535A-03-PLDR2 3000 PSIG	FILTER ELEMENT 535-03-PL.
CAT I 6.2.30	FILTER HOUSING COMMERCIAL & 9C-4330-01-320-6047	PALL	5HD4886-253 5000 PSIG	FILTER ELEMENT PFS-1001-ZM.
CAT I 6.2.31	FILTER HOUSING, COMMERCIAL & 9C-4330-01-192-3427	PALL	MEN9001G240H13 6000 PSIG	FILTER ELEMENT PFS-1001-ZM.

GENERAL NOTE FOR SODALIME:: ALL SODALIMES MAY NOT BE APPROVED FOR ALL APPLICATIONS. CHECK WITH CERTIFICATION AUTHORITY OR TECHNICAL MANAUAL FOR SYSTEM PRIOR TO ORDERING OR USING A PARTICULAR PRODUCT.

CAT I 6.2.32	FILTER ELEMENT, COMMERCIAL	PARKER-HANNIFIN	6QP19-098	AUTHORIZED FOR SERVICE FOR SAME APPLICATIONS AS MDS100SU, PFS1001ZM & RV-DUO-FN-10 FILTER ELEMENTS.
CAT I 6.2.33	FILTER ELEMENT, COMMERCIAL & 4310-01-061-0247	PNEUMATIC PRODUCTS	POS1001SU	AUTHORIZED FOR SERVICE FOR SAME APPLICATIONS AS MDS100SU, RV-DUO-FN-10 & PFS1001ZM FILTER ELEMENTS.
CAT I 6.2.34	FILTER ELEMENT, COMMERCIAL	FILTERSOFT	FP19098XECU	AUTHORIZED FOR SAME APPLICATIONS AS POS1001SU, MDS100SU, RV-DUO-FN-10 & PFS1001ZM FILTER ELEMENTS.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 006

**Changes are in Italics and Bolded*

AIR PURIFICATION SYSTEMS, AIR FILTERS & FILTER ELEMENTS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
6.3 SODALIME CARBON DIOXIDE ABSORBENTS				
CAT I 6.3.1	CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-113- 0110	W. R. GRACE & CO.	HIGH PERFORMANCE SODASORB, REGULAR	THIS IS A 4 - 8 MESH SODALIME
CAT I 6.3.2	CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-113-0110	MOLECULAR PRODUCTS LTD.	SOFNOLIME 408 MESH NI L GRADE	THIS IS A 4 - 8 MESH SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.
CAT I 6.3.3	CO₂ ABSORBENTS, COMMERCIAL ITEM OR STOCK NO. 6810-01-412-0637	MOLECULAR PRODUCTS LTD.	SOFNOLIME 812 MESH NI D GRADE	THIS IS A 10 - 14 MESH (U.S.) SODALIME. PRODUCT IS DISTRIBUTED BY THE O.C. LUGO CO.

GENERAL NOTE FOR SODALIME:: ALL SODALIMES MAY NOT BE APPROVED FOR ALL APPLICATIONS. CHECK WITH CERTIFICATION AUTHORITY OR TECHNICAL MANAUAL FOR SYSTEM PRIOR TO ORDERING OR USING A PARTICULAR PRODUCT.

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 007

**Changes are in Italics and Bolded*

RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
7.1 Recompression Chamber Equipment and Instruments				
CAT I 7.1.1	BIBS MASK, COMMERCIAL & 9C-4220-00-240-7150	SCOTT AVIATION	803600- 00/01/02/03/04	FOR RECOMPRESSION CHAMBERS <u>WITHOUT</u> BUILT-IN OVERBOARD DUMP CAPABILITY. PART # 803600 (SERIES) REPLACES PREVIOUS PN 800931.
CAT I 7.1.2	BIBS MASK, COMMERCIAL & 1H-4240-01-233-6639 1H-1940-00-219-6370	SCOTT AVIATION	801238- 00/01/02/03/04	PN 801238-00 / 1H-4240-01-233-6639 IS A BASIC ASSEMBLY. PN 801238-01 / 1H-1940-01-219-6370 ASSEMBLY WITHOUT PRESSURE REGULATOR. OTHER COMBINATIONS 03/04 AUTHORIZED FOR COMMERCIAL PURCHASE.
CAT I 7.1.3	BIBS MASK, COMMERCIAL & 9E-4220-01-173-5384 9C-4220-01-173-5358	SCOTT AVIATION	VAK II, 803139-00- 01/02/03/04, 803139- 01-01/02/03/04	PART NUMBER 803139-01-02, 9E-4220-01-173-5384 IS BASIC ASSEMBLY WITH MEDIUM FACE SEAL. PART NUMBER 803139-01-03, 9C-4220-01-173-5385 IS ASSEMBLY WITH LONG FACE SEAL. OTHER VERSIONS ARE AUTHORIZED FOR COMMERCIAL PURCHASE.
7.1.4	ITEM DELETED 8/27/98			
7.1.5	ITEM DELETED 8/27/98			
7.1.6	ITEM DELETED 8/27/98			
CAT II 7.1.7	FIRE EXTINGUISHER, 9C-4210-01-316-0211	AMRON CORP.	MODEL 240	AMRON MODEL 240 MANUFACTURED WITH RELIEF VALVE AND PRESSURE GAUGE SPECIFICALLY FOR HYPERBARIC SERVICE.
CAT II 7.1.8	PRESSURE COMPARISON DEVICE, COMMERCIAL	3D INSTRUMENTS	8106-100/ VACUUM - 60 PSI, 8103-100/ 0- 150 PSI, 8105-300/ 0- 3000 PSI	USE ONLY DISTILLED WATER AS HYDRAULIC MEDIUM FOR GAUGE COMPARISON TO PREVENT GAUGE CONTAMINATION. FOR COMPARISON ONLY, NOT SUITABLE FOR CALIBRATION.
CAT II 7.1.9	TEMP MONITOR, COMMERCIAL	ANALOX	ANALOX 4000 SA1A14B1P SA1A14A1P	SA1A14B1P READS IN DEGREES FAHRENHEIT. SA1A14A1P READS IN DEGREES CENTIGRADE.
CAT II 7.1.10	TEMP MONITOR, COMMERCIAL	COLE PARMER	TYPE J-K8521-02	NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE. (12/3/99)
CAT II 7.1.11	TEMP MONITOR, COMMERCIAL	ANALOGIC CORP.	MEASUROMETER II	
CAT II 7.1.12	COOLING VEST, COMMERCIAL & 8415-01-289-9707 GEL STRIPS: 8415-01- 289-9796 VEST	STEELE, INC.	SA1140-FR	COOLING VESTS SHOULD BE CONSIDERED FOR CHAMBERS IN WHICH A HEAT PROBLEM MIGHT REASONABLY OCCUR, BASED ON THE OPERATIONAL ENVIRONMENT AND LEVEL OF INTERNAL & EXTERNAL CHAMBER TEMPERATURE CONTROL AVAILABLE, i.e., HEATER/CHILLER SYSTEM, AIR CONDITIONED SHELTER, EXTERNAL WATER DELUGE, ETC. GEL STRIPS, PN: SA1149/NSN 8415-01-289-9796 ARE ALSO REQUIRED FOR THIS SYSTEM. (12/29/99)

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RECOMPRESSION CHAMBER INSTRUMENTATION & EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
7.1 Recompression Chamber Equipment and Instruments (Continued)				
CAT I 7.1.13	OXYGEN TREATMENT PANEL, COMMERCIAL	AMRON INTERNATIONAL	MODEL 8890	<i>AUTHORIZED FOR FITTED FACILITY RECOMPRESSION CHAMBERS ONLY, <u>NOT FOR USE</u> IN PORTABLE RECOMPRESSION CHAMBERS. FOR USE IN HYPERBARIC CHAMBERS DURING TREATMENTS. AUTHORIZED WITH FOLLOWING ACCESSORIES:</i> <i>1. OXYGEN THERAPY HOOD (SL-1002)</i> <i>2. OXYGEN THERAPY HOOD (MODEL 8891)</i> <i>3. NECK SEAL WITH MOUNT RING (SL-1001)</i> <i>4. HUMIDIFIER (8890-0063)</i>
CAT II 7.1.14	CHEM LIGHTS, COMMERCIAL	OMNIGLOW CORP. NOVATO, CA	PART NUMBER 9- 27021 CYALUME NIGHT STICKS (CHMLT)	<i>CHMLTs AUTHORIZED AS AN EMERGENCY LIGHTING SOURCE IN HYPERBARIC CHAMBERS. DO NOT STORE CHMLTs IN CHAMBERS; INSTEAD, THEY SHOULD BE PLACED IN A TREATMENT CHAMBER ONLY WHEN NEEDED TO PROVIDE ILLUMINATION DURING A TREATMENT.</i>
CAT II 7.1.15	CHAMBER CONDITIONING UNIT COMMERCIAL	AMRON	9100 ICS	<i>P/N 9100RMK IS THE AUTHORIZED REPLACEMENT MOTOR KIT.</i>

Enclosure (1)
Section 007

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 008

**Changes are in Italics and Bolded*

GAS ANALYSIS EQUIPMENT

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
8.1 Gas Analysis Equipment				
CAT II 8.1.1	CARBON DIOXIDE ANALYZER HAND PUMP, COMMERCIAL & NSN ITEM 9G-6665-00-710-7815	DRAEGER PUMP	MODEL 21, 31 & ACCURA	NSN ITEM IS MODEL 31.
CAT II 8.1.2	CO ₂ COLORMATIC TUBE, COMMERCIAL & NSN ITEM 9G-6665-00-769-0945	DRAEGER CO ₂ TUBE	.1 TO 6% RANGE,	
CAT II 8.1.3	COLORMETRIC GAS TUBES, COMMERCIAL ITEM	DRAEGER	VARIOUS RANGES	COLORMETRIC TUBES MAY BE PURCHASED AS REQUIRED TO MEET LOCAL GAS AND VAPOR ANALYSIS REQUIREMENTS.
CAT II 8.1.4	CARBON DIOXIDE MONITOR, COMMERCIAL ITEM	AMRON	ANALOX 5000/5001- USN	THE 0055S-USN VERSION OF THIS MONITOR IS NO LONGER MANUFACTURED, BUT AUTHORIZED FOR CONTINUED USE.
CAT II 8.1.5	OXYGEN ANALYZER PORTABLE, COMMERCIAL & NSN ITEM	TELEDYNE	320 A/B/RC	NICAD RECHARGEABLE BATTERIES <u>SHALL NOT</u> BE USED INSIDE RECOMPRESSION CHAMBERS.
CAT II 8.1.6	OXYGEN ANALYZER, COMMERCIAL & NSN ITEM 9L-6630-01-231-7227 APL: 461400004	TELEDYNE	326 (SERIES)	NSN MODEL IS 326RB.
CAT II 8.1.7	OXYGEN ANALYZER, COMMERCIAL ITEM	ANALOX	SERIES 1000	CONFIGURATIONS MAY BE TAKEN FROM AMRON SERIES 1000 ORDERING MATRIX
CAT II 8.1.8	OXYGEN ANALYZER, COMMERCIAL	TELEDYNE	TELEDYNE TED 60-T	NICAD RECHARGEABLE BATTERIES <u>SHALL NOT</u> BE USED INSIDE RECOMPRESSION CHAMBERS.
CAT II 8.1.9	OXYGEN ANALYZER, COMMERCIAL	ANALOX	ANALOX 100M MINI 02 PORTABLE 02 ANALYZER	DESIGNED TO VERIFY OXYGEN LEVELS IN NITROX AND HELIOX CYLINDERS, MONITOR COMPRESSOR OUTPUT FOR 02 LEVELS IN DIVING CHAMBERS, AND IN OTHER MEDICAL APPLICATIONS.
CAT II 8.1.10	CO₂ ANALYZER COMMERCIAL	AMRON INTERNATIONAL	ANOLOX (501) MINI- CO₂ PORTABLE CARBON DIOXIDE ANALYZER	OPERATES UNDER TWO RANGES: 0.1 PERCENT TO 5 PERCENT CO₂ (501-5), 0.01 PERCENT TO 2 PERCENT CO₂ (501-2). DIGITAL READOUT WITH AUDIBLE ALARM. WATER RESISTANT, RECHARGEABLE BATTERIES. (9/29/99)

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SECTION 008
GAS ANALYSIS EQUIPMENT

**Changes are in Italics and Bolded*

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
8.1 Gas Analysis Equipment (Continued)				
<i>CAT II 8.1.11</i>	<i>CO₂ ANALYZER COMMERCIAL</i>	<i>GEOTECHNICAL INSTRUMENTS INC.</i>	<i>ANAGAS MODEL HB 1.1A</i>	<i>MEASURES CO₂ UP TO 2.5 PERCENT OF SEV AT 1 TO 6 ATMOSPHERES ABSOLUTE (ATA). THE ANAGAS MODEL HB 1.1A IS A SPECIFICALLY MODIFIED UNIT FOR NAVY USE, AND IS DESIGNED FOR USE INSIDE CHAMBERS USE IN HIGH HUMIDITY, I.E., DDS. NOTE: ONLY THE ANAGAS MODEL HB 1.1A (ID'D BY A BLUE CASE) IS AUTHORIZED.</i>
<i>CAT II 8.1.12</i>	<i>CO₂ MONITOR, COMMERCIAL</i>	<i>ANALOX</i>	<i>MODEL 5D</i>	<i>FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. ORDERED IN 1 OF 9 RANGE LIMITS AND 1 OF 2 RANGE MEASUREMENTS (PPM OR %). 2000,5000 or 10000 PPM OR 1,2,5,10,20 or 100%. AUDIBLE ALARM. LCD DISPLAYS. REMOTE ALARM REPEATER.</i>
<i>CAT II 8.1.13</i>	<i>CO MONITOR, COMMERCIAL</i>	<i>ANALOX</i>	<i>MODEL 3D</i>	<i>FIXED INSTALLATION OPERATION UNDER NORMAL ATMOSPHERIC PRESSURE (1 ATA) CONDITIONS. RANGE OF MEASUREMENT CAN BE SPECIFIED AT TIME OF ORDERING. AUDIBLE ALARM. LCD DISPLAY.</i>
<i>CAT II 8.1.14</i>	<i>O₂ / CO₂ COMBINED MONITOR COMMERCIAL</i>	<i>ANALOX</i>	<i>SUB E-1R-15P</i>	<i>PORTABLE, BATTERY POWERED, COMBINATION OXYGEN AND CARBON DIOXIDE MONITOR FOR USE INSIDE OR OUTSIDE OF A HYPERBARIC CHAMBER. MEASURES O₂ LEVELS IN RANGE OF 0-2000 MBAR PPO₂. MEASURE CO₂ CONCENTRATIONS FROM 0 TO 50 MBAR PPCO₂.</i>

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Section 008

DIVING EQUIPMENT AUTHORIZED FOR NAVY USE

SECTION 009

**Changes are in Italics and Bolded*

DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.1 Portable Ground Fault Interrupters				
CAT II 9.1.1	GFI, COMMERCIAL	FLUID KINETICS	PN 4501-02	FLUID KINETICS, PROVEN UNDERWATER TECHNOLOGY 4050 MARKET STREET, VENTURA, CA 93003 NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 9.1.2	GFI, COMMERCIAL	FLUID KINETICS	ARCTIC GFI, 2.5 Kw	NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.
CAT II 9.1.3	GFI, COMMERCIAL	DANIEL WOODHEAD COMPANY	1670-PORTABLE 1680-WALL MOUNTED	NO LONGER AUTHORIZED FOR PURCHASE, BUT AUTHORIZED FOR CONTINUED USE. SPECIAL WIRING MODIFICATION REQUIRED FOR USE WITH UNGROUNDED POWER SYSTEMS. NAVSEA CODE 00C5 IS PROGRAM MANAGER FOR GFI's, COMMERCIAL (703) 607-2761, DSN 327-2761. IT IS IMPORTANT TO NOTE THAT USE OF AN EXTERNAL GFI IN A SYSTEM WITH AN INTERNAL GFI OR POWER SUPPLY WHICH IS CONNECTED TO A GFI CAN RESULT IN NULLIFYING THE ABILITY OF THE GFI TO OPERATE. COMPLY WITH THE ELECTRICAL SAFETY SECTION OF THE USN DIVING MANUAL.

9.2 Photographic and Video Equipment

GENERAL NOTE: BATTERY POWERED VIDEO EQUIPMENT IS AUTHORIZED AS DIVER PREFERENCE CAT III FOR IN-WATER APPLICATIONS. VIDEO EQUIPMENT IS NOT CAT III FOR INSTALLATION IN HYPERBARIC CHAMBERS.

CAT III 9.2.1	35MM CAMERA, COMMERCIAL	LEICA	UNDERWATER 35 MM	MANUALLY OPERATED.
CAT III 9.2.2	35 MM CAMERA, COMMERCIAL 9G-6720-01-212-3678	NIKON,INC	V, FIVE, IV/V(COMMERCIAL) NIKONOS V, CAMERA, STILL PICTURE (STOCK SYSTEM)	MANUALLY OPERATED BATTERY ASSISTED BATTERY POWERED

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DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.2 Photographic and Video Equipment (Continued)				
CAT III 9.2.3	LIGHT METER, COMMERCIAL	SEKONIC	N/A	BATTERY ASSISTED/BATTERY POWERED
CAT III 9.2.4	ELECTRONIC FLASH, COMMERCIAL	SUBSEA	MK 150	BATTERY ASSISTED/BATTERY POWERED
CAT III 9.2.5	STROBE, COMMERCIAL	NIKONOS	SB 102, SB 103, SB 105	BATTERY ASSISTED/BATTERY POWERED NOTE: CERTAIN SB 103 UNITS HAVE BEEN RECALLED BY NIKON. SEE NAVSEA 00C WEB SITE AND/OR CONTACT MANUFACTURER FOR DETAILS. (11/17/99)
CAT III 9.2.6	MOTION PICTURE CAMERA, COMMERCIAL	TAYLOR PARKER, INC.	DR 58 DBM 5 (U/W HIGH SPEED MOTION PICTURE CAMERA	BATTERY ASSISTED/BATTERY POWERED
CAT II 9.2.7	TELEVISION, COLOR SYSTEM, COMMERCIAL	HYDROVISION INTERNATIONAL	HYDRO COLOR TC- 181	NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.
CAT II 9.2.8	DIVER HELMET MOUNT CAMERA LIGHT ASSEMBLY, COMMERCIAL	SIMRAD	SIMRAD OSPREY DWG 082-0534	THIS ITEM REPLACES THE CAMERA/LIGHT ASSEMBLY ON THE EXISTING DIVER UNDERWATER COLOR TV SYSTEM (DUCTS). IT IS USED IN CONJUNCTION WITH THE DUCTS SCU, AND REQUIRES AN ADAPTER FOR THE DUCTS UMBILICAL. IT IS SMALL ENOUGH TO BE HELMET MOUNTED. THE SYSTEM ALSO INCLUDES A LIGHT, DWG 998-2002 REV D (-1 VERSION) AND CABLE ADAPTER DWG 082-0530 REV A. THIS ITEM REPLACES DWG 1365-9999 REV 0.
CAT II 9.2.9	UW TV SYSTEM, COMMERCIAL	SIMRAD OSPREY	DUCT II DWG 082-0500	THIS IS A FOLLOW ON TO DUCT I SYSTEM WHICH REMAINS AUTHORIZED FOR USE BUT IS NO LONGER MANUFACTURED.
CAT II 9.2.11	TELEVISION, COLOR SYSTEM, S-TRON DWG 110000 REV A	S-TRON	DUCTS I, DIVER UNDERWATER COLOR TELEVISION SYSTEM	SYSTEM INCLUDES SURFACE CONTROL UNIT (SCU), CAMERA, LIGHT AND UMBILICAL. NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.
CAT II 9.2.12	TELEVISION, COLOR SYSTEM, COMMERCIAL APL: 990010085	SUB-SEA	SEA BEE II, 2D, CM- 55	NO LONGER MANUFACTURED BUT AUTHORIZED FOR USE.

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SECTION 009 **Changes are in Italics and Bolded*
DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
9.2 Photographic and Video Equipment (Continued)				
CAT III 9.2.13	VIDEO, UW, COMMERCIALY AVAILABLE	DIVER PREFERENCE SONY WITH SONY OR AQUAVISION HOUSING	HANDY CAM 8	BATTERY POWERED VIDEO EQUIPMENT IS AUTHORIZED AS CAT III ITEMS. ANY SYSTEM USING UMBILICAL POWER SUPPLY REQUIRES SPECIFIC AUTHORIZATION. (NOT AUTHORIZED FOR HYPERBARIC CHAMBER USE)
CAT II 9.2.14	TELEVISION SYSTEM, COMMERCIALY AVAILABLE	MPK-60	UNDERWATER TV SYSTEM SELF CONTAINED	
CAT II 9.2.15	DC POWER SUPPLY COMMERCIALY AVAILABLE	SONNICHEN	A-200	
CAT II 9.2.16	DC POWER SUPPLY COMMERCIALY AVAILABLE 9G-6130-01-136-7781	1. ACOPIAN 2. ADVANCED TECHNOLOGY RESEARCH	W184Y1500, U28Y1500(ACOPIAN CORP.) ATR PN IS PS-28-15- M	
CAT II 9.2.17	UNDERWATER BOREScope, COMMERCIALY AVAILABLE ESSM# UW 0324	NAVSEA	NAVSEA DWG 6697610	THIS ITEM MUST BE POWERED AND RECEIVE GFI PROTECTION FROM THE DUCTS SURFACE CONTROL UNIT AND UMBILICAL
CAT III 9.2.18	PIPE INSPECTION EQUIPMENT, COMMERCIAL	DEESEA POWER AND LIGHT SEESNAKE	KD-VARIOUS DEPENDENT ON REEL LENGTH	FOUR INTERCHANGEABLE REELS AND CONTROLLERS. REELS – 200' SEESNAKE, PN 744-00301-08 325' SEESNAKE, PN 744-00301-09 100' MINI SEESNAKE, PN 744-01201-01 200' MINI SEESNAKE, PN 744-01201-02 CONTROLLERS – POWER SUPPLY ONLY, PN 742-00901-01 MONITOR NO VCR, PN 742-010-001-01 MONITOR W/ VCR, PN 742-013-003-01 VIDEO SYSTEM MANAGER, PN 742-008-001-01

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Section 009

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DIVING EQUIPMENT AUTHORIZED FOR NAVY USE
SECTION 009 **Changes are in Italics and Bolded*
DIVER'S UNDERWATER TOOLS

CATEGORY/ CONTROL #	ITEM/STOCK NUMBER	MANUFACTURER	DESIGNATION/ MODEL	NOTES AND COMMENTS
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9.2 Photographic and Video Equipment (Continued)

CAT II 9.2.19	UNDERWATER TELEVISION SYSTEM, COMMERCIAL	KONGSBERG SIMRAD	MODEL OE 9021	CONTROL UNIT MODEL OE 1261 MUST BE ORDERED WITH DUCTS II LINE INSULATION MONITOR (PART NUMBER 1263-6011) WITH TRIP CURRENT SETTINGS IAW ANU STANDARDS FOR DUCTS II. THE CONTROL UNIT MUST ALSO BE ORDERED WITH A MODIFIED POWER INPUT CORD FITTED WITH GFCI PROTECTOR (PART NUMBER 302-0053-00)
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9.3 Tools

GENERAL NOTE: (1) DEAD MAN SWITCH REQUIRED FOR ALL HYDRAULIC OPEN-CENTER FLOW TOOLS. CONTACT NAVSEA 00C5, COM (703) 607-2761DSN 327-2761 FOR ASSISTANCE.

CAT II 9.3.1	CABLE TRACKING SYSTEM, DIVER OPERATED, COMMERCIALY AVAILABLE	FLUID KINETICS CORP	CTP 250 UNDERWATER TRACKING PROBE FBSI - 0.5 SHORE BASED SIGNAL INJECTOR	FORMERLY "WESTERN INSTRUMENTS"
CAT III 9.3.2	LOCATOR, BURIED PIPE AND CHAIN, NCEL ITEM OR COMMERCIALY AVAILABLE	NCEL OR COMMERCIALY AVAILABLE	NFESC DWG 93-10-1F	
CAT III 9.3.3	NAVIGATION SYSTEM, DIVER, COMMERCIALY AVAILABLE	NFSEC OR COMMERCIALY AVAILABLE	NCEL DWG 91-29-1F TO 15F OR COMMERCIALY AVAILABLE	ELECTRICAL POWER IN WATER COMPONENTS NOT TO EXCEED 30 VDC.
CAT III 9.3.4	PINGER/MARKER, U/W, COMMERCIALY AVAILABLE	DIVER PREFERENCE	VARIOUS COMMERCIALY AVAILABLE	BATTERY POWERED.
CAT II 9.3.5	SONAR, HAND HELD LOCATOR, COMMERCIALY AVAILABLE OR NSN : 7H-5845-00-575-4092	FUTURONICS CORP.	JOINT ELECTRONICS TYPE DESIGNATION: AN/PQS-1D	
CAT II 9.3.5.1	SONAR, HAND HELD COMMERCIALY AVAILABLE	RJE INTERNATIONAL	DATASONIC DHS - 100	COMMERCIAL HAND HELD SONAR WITH OPERATING PARAMETERS AND CAPABILITIES AS AN/PQS-2A. DHS-100 NOT AUTHORIZED FOR EOD LOW MAGNETIC DIVING OPERATIONS.

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9.3 Tools (Continued)				
CAT II 9.3.6	SONAR, AN/PQS-2A, 7H-1386-01-170-4245 APL: 006900009	GENERAL INSTRUMENTS	1100/5001 NON- MAG OR AN/PQS-2A	
CAT III 9.3.7	CUTTER, HYDRAULIC, 9Q-5130-01-180-8939 COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366579	H. K. PORTER OR DIVER PREFERENCE	45418N CUTTER HEAD WITH SWINGING KEEPER 44474N NUT SPLITTER CUTTER HEAD	
CAT II 9.3.8	CUTTER, KERIE CABLE, THERMAL, COMMERCIALY AVAILABLE	CLUCAS		FAMILIARIZATION TRAINING REQUIRED PRIOR TO USE
CAT II 9.3.9	CHAIN SAW, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366975, SNS 9G- 3695-01-175-3197	STANLEY	CS-11340	GENERAL NOTE 1 APPLIES. FAMILIARIZATION TRAINING REQUIRED PRIOR TO USE
CAT II 9.3.10	CUTOFF SAW, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366569	9Q-5130-01-177-5613 STANLEY	CO23341	GENERAL NOTE 1 APPLIES.
CAT III 9.3.11	BAND SAW, PORTABLE, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366568	NCEL	NAVSEA DWG 5366569	GENERAL NOTE 1 APPLIES.

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9.3 Tools (Continued)				
CAT II 9.3.12	CHAIN SAW, HYDRAULIC, CONCRETE CUTTING, COMMERCIALY AVAILABLE	STANLEY TOOLS	DS11515	GENERAL NOTE 1 APPLIES. SPECIAL TRAINING REQUIRED
CAT III 9.3.13	CHIPPING HAMMER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366577, NSN: 9Q-5130- 01-208-7755, AEL: 2- 950014055	STANLEY OR DIVER PREFERENCE	CH-18311	GENERAL NOTE 1 APPLIES. DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAXIMUM PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOUR <u>THREE (3) HOURS AND FORTY (40) MINUTES.</u>
CAT III 9.3.14	COME-ALONG, 2-TON, HYDRAULIC, 9Q-5130-01- 177-4943 COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366561	TRACTEL INC., GRIPHOIST DIVISION OR DIVER PREFERENCE	TU-28H-SS-2	(12/3/99)
CAT III 9.3.15	DIVER-OPERATED PUMP, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366581 OR 9C-4320-00- 776-7180	ENERPAC	P-80 OR OTHER SUITABLE MODELS	
CAT III 9.3.16	FLOW DIVIDER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366571, NSN 9C- 4320-01-182-6911	VARIOUS	DWG 5366571	

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9.3 Tools (Continued)				
CAT III 9.3.17	GRINDER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366565, NSN: 9Q- 5130-01-208-7754, APL: 990010039	STANLEY OR DIVER PREFERENCE	GR24301	GENERAL NOTE 1 APPLIES. MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 30 MINUTES; MK 21, 3 HOUR 22 MINUTES
CAT III 9.3.18	GRINDER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263821	FAIRMONT OR DIVER PREFERENCE	HU 6935	GENERAL NOTE 1 APPLIES. <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE AND WILL CONTINUE TO BE SUPPORTED BY MANUFACTURER. (12/3/99)</i>
CAT III 9.3.19	GROUT DISPENSER, EPOXY, PNEUMATIC, NCEL IAW NAVSEA DWG 6263820	DIVER PREFERENCE	WBS 2.260	
CAT II 9.3.20	HALE RESCUE TOOL, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366570	HALE HURST PERFORMANCE DIVISION	MODEL 32A AND 32B	ALSO KNOWN AS THE HURST TOOL OR JAWS OF LIFE.
CAT III 9.3.21	COMMERCIALY AVAILABLE NSN: 5130-01-334-3226	HULL CLEANING SINGLE BRUSH UNIT, HYDRAULIC STANLEY OR DIVER PREFERENCE	HB29301	
<i>CAT III 9.3.21.1</i>	<i>HULL CLEANING DUAL BRUSH UNIT, HYDRAULIC COMMERCIALY AVAILABLE</i>	<i>FLEXBRUSH LIMITED OR ARMADA SYSTEMS, INC.</i>	<i>FLEXBRUSH LIMITED DUAL BRUSH CLEANING UNIT OR ARMADA AS-T14HB</i>	<i>GENERAL NOTE (1) APPLIES. THESE UNITS ARE PROHIBITED FOR USE ON USN ACTIVE, RESERVE OR INACTIVE SHIPS. AUTHORIZED AND INTENDED FOR USE ON SERVICE CRAFT AND UNDERWATER STRUCTURES. UNDER NO CIRCUMSTANCES SHALL ELECTRICALLY POWERED COMPONENTS BE INSTALLED ON THE CLEANING UNIT. THIS INCLUDES BUT IS NOT LIMITED TO LIGHTS, SENSORS OR IMAGING SYSTEMS.</i>
CAT III 9.3.22	HYDRAULIC CONSOLE, COMMERCIALY AVAILABLE IAW NAVSEA DWG 789030	DIVER PREFERENCE	15 GPM MOD II	

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9.3 Tools (Continued)				
CAT III 9.3.23	IMPACT WRENCH, HEAVY DUTY, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG: 5367230, APL:990010040-2, NSN: 9Q-5130-01-204-1784	STANLEY OR DIVER PREFERENCE	IW20360 5/8 IN.	GENERAL NOTE 1 APPLIES. MAX CUMULATIVE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20, 40 MINUTES; MK 21, 1 HOUR 25 MINUTES
CAT III 9.3.24	JACK RAM, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366573, NSN: 9C- 4320-00-965-5952 APL: 859990792	ENERPAC OR DIVER PREFERENCE	RC 1010	GENERAL NOTE 1 APPLIES. LOAD LIMITED TO FIVE TONS.
CAT III 9.3.25	LIFT SYSTEM, DIVER, IAW NFESC DWG # 93-6- 1F OR COMMERCIALY AVAILABLE	NCEL OR DIVER PREFERENCE	DWG 93-6-1F OR COMMERCIAL EQUIVALENT	
CAT II 9.3.26	MULTI FUNCTION TOOL SYSTEM, SEA WATER- ACTUATED NCEL		MFTS	GENERAL NOTE 1 APPLIES. THE MULTI FUNCTION TOOL SYSTEM IS A SEA WATER ACTUATED AND CONSISTS OF A POWER UNIT, A BAND SAW, A ROCK DRILL, A ROTARY IMPACT TOOL, AND A ROTARY DISK TOOL. MAX OPERATING TIME PER DIVER PER 24 HOURS: ROTARY: UNLIMITED IMPACT TOOL: 14 MIN IN METAL TANK ROCK DRILL: 1 HOUR FOR DIVER ASSISTING TO START A BIT.
CAT II 9.3.27	PILE CUTTER, UNDERWATER, HYDRAULIC IAW NAVSEA DWG 6263822	NCEL	DWG-6263822	GENERAL NOTE 1 APPLIES.
CAT III 9.3.28	POWER SUPPLY, DIESEL HYDRAULIC, IAW NAVSEA DWG 5366557	NCSC AND DIVER PREFERENCE	MODEL 2	DO NOT EXCEED 2000 PSI OR 15 GPM.
CAT II 9.3.29	PORTABLE POWER SUPPLY, DIESEL HYDRAULIC, COMMERCIALY AVAILABLE	PORTACO, INC.	MK 9 MOD 0, MANUFACTURER MODEL D-17S10-15- W,.	DO NOT EXCEED 2000 PSI. PORTACO PORTABLE DIESEL HPU CAN BE USED AS AN ALTERNATIVE TO CONTROL #9.3.28 (CAT III), MOD II HPU.

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9.3 Tools (Continued)				
CAT III 9.3.30	POWER SUPPLY, ELECTRIC HYDRAULIC IAW NAVSEA DWG 5366558	NCSC AND DIVER PREFERENCE	MODEL 4	DO NOT EXCEED 2000 PSI OR 15 GPM.
CAT III 9.3.31	PULL CYLINDER, HYDRAULIC COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366575, NSN: 9F- 4320-00-758-1449 APL: 523150002	ENERPAC OR DIVER PREFERENCE	MODEL RD-1610	GENERAL NOTE 1 APPLIES.
CAT II 9.3.32	ROCK DRILL, COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263818	HYDRAULIC STANLEY	MODEL HD20	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 2 HOURS AND 35 MINUTES, MK21 2 HOURS AND 20 MINUTES.
CAT II 9.3.33	ROCK DRILL, COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263816	HYDRAULIC STANLEY	MODEL HD45	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 2 HOURS AND 9 MINUTES, MK21 2 HOURS AND 49 MINUTES.
CAT II 9.3.34	SINKER DRILL, COMMERCIALY AVAILABLE IAW NAVSEA DWG 6263817	HYDRAULIC STANLEY	MODEL SK58	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 21 MINUTES, MK21 2 HOURS AND 49 MINUTES.
CAT II 9.3.35	BREAKER, HYDRAULIC, COMMERCIALY AVAILABLE	STANLEY	MODEL BR67	GENERAL NOTE 1 APPLIES. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: MK-20 30 MINUTES, MK-21 60 MINUTES.
CAT II 9.3.36	STUD GUN COMMERCIALY AVAILABLE	RAMSET	HD 200	USE OF THE STUD GUN IS LIMITED TO 40 SHOTS PER 24 HOUR PERIOD FOR EACH DIVER. MAY BE USED ONLY BY DIVERS TRAINED BY SEA 00C. SECURE STORAGE IS REQUIRED FOR THE STUD GUN AND THE .38 CAL ACTUATING CARTRIDGES. <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE (12/3/99)</i>

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9.3 Tools (Continued)				
CAT II 9.3.37	SUMP/JETTING PUMP COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366572, NSN: 9C-4320-01-086-2873 APL: 990010043	STANLEY	SM 22501	
CAT II 9.3.38	UNDERWATER ELECTRICAL FIELD DETECTOR COMMERCIALY AVAILABLE	FLUID KINETICS	UEFD-001	FORMERLY "WESTERN INSTRUMENTS"
CAT II 9.3.39	UNDERWATER CONCRETE INSPECTION SYSTEM IAW NFESC 93-8-1F	NFESC	REBAR LOCATOR REBOUND HAMMER ULTRASONIC TEST SYSTEM	PORTABLE GROUND FAULT INTERRUPTER REQUIRED.
CAT II 9.3.40	WATER JET CLEANING TOOL, COMMERCIALY AVAILABLE IAW NCSC DWG 5368233	HIGH PRESSURE PARTEK	31-9300-302	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: 0 DEGREE NOZZLE: 50 MINUTES 15 DEGREES NOZZLE: 2 HOURS 50 MINUTES.
CAT II 9.3.41	WATER JET CLEANING, HIGH PRESSURE PUMP, COMMERCIALY AVAILABLE MODIFIED IAW NAVSEA DWG 6699567 APL:41489002 9C-4940-01-117-9056	GARDNER DENVER (BUTTERWORTH)	WBD-150N-D	(12/29/99)
CAT II 9.3.41.1	WATER JET CLEANING TOOL, HIGH PRESSURE, ZERO THRUST GUN, COMMERCIALY AVAILABLE, MODIFIED IAW NAVSEA DWG 6699567	GARDNER DENVER (BUTTERWORTH)	31-09300-524	USED WITH ANU CONTROL #9.3.41. DIVER REQUIRED TO WEAR MK 21 MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS: 85 MINUTES. (12/29/99)

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9.3 Tools (Continued)				
CAT II 9.3.41.2	WATER JET CLEANING TOOL, HIGH PRESSURE FLEXIBLE LANCE, COMMERCIALY AVAILABLE, IAW NAVSEA DWG 6699567	GARDNER DENVER (BUTTERWORTH)	431516-037	USED WITH ANU CONTROL # 9.3.41. 1/2 INCH DIAMETER, 37 FT LENGTH. (12/29/99)
CAT II 9.3.41.3	WATER JET CLEANING TOOL, HIGH PRESSURE FLEXIBLE LANCE, COMMERCIALY AVAILABLE, IAW NAVSEA DWG 6699567	JETSTREAM	51498-25	USED WITH ANU CONTROL # 9.3.41. .335 INCH OD, 25 FT LENGTH
CAT II 9.3.42	WATER JET CLEANING TOOL, HIGH PRESSURE COMMERCIALY AVAILABLE (NCEL-MODIFIED)	FLOW INDUSTRIES	MODEL 12	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:2 HOURS 45 MINUTES.
CAT II 9.3.43	WATER JET CLEANING TOOL, HIGH PRESSURE COMMERCIALY AVAILABLE (NCEL-MODIFIED)	DS-JETPAC		DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:2 HOURS 45 MINUTES.
CAT II 9.3.44	WATER JET CLEANING TOOL, CAVITATING, COMMERCIALY AVAILABLE	SEACO, INC.	CAVIJET MODELS 1-A, 1-B	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIMES PER DIVER PER 24 HOURS:1-A AND 1-B 1 HOUR
CAT II 9.3.45	WATER JET CLEANING TOOL, CAVITATING, COMMERCIALY AVAILABLE	SEACO, INC.	CAVIJET MODELS 1-B MOD 1	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS: 1 HOUR 40 MINUTES

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9.3 Tools (Continued)				
CAT II 9.3.46	WATER JET CLEANING TOOL, CAVITATING, COMMERCIALY AVAILABLE	DAEDALEAN	CONCAVER MODELS DAI-800-D-100A	DIVER REQUIRED TO WEAR 1/4 INCH NEOPRENE WET HOOD. NOTE: MAX PERMISSIBLE OPERATING TIME PER DIVER PER 24 HOURS: CONCAVER 1 HOUR 50 MINUTES. USE TOOL WITH EATON SYNFLEX HOSE 3V10-04 WITH FACTORY INSTALLED SURLIN OVER JACKET. USE WITH DAEDALEAN NOZZLES (DAI #) 4010 FAN, 3510 FAN, TWIN 025, F118 (40 DEGREE FAN), OR F149 (40 DEGREE FAN). PROTECTIVE GLOVES ARE RECOMMENDED, DEPENDING ON OPERATING CONDITIONS.
CAT II 9.3.47	WATER JET CLEANING TOOL, CAVITATING, COMMERCIALY AVAILABLE	SIMPSON	2245 C	PORTABLE, GASOLINE-POWERED FOR LIGHT CLEANING. THIS ITEM MAY NO LONGER BE PURCHASED, BUT AUTHORIZED FOR CONTINUED USE. <i>NO LONGER MANUFACTURED BUT AUTHORIZED FOR CONTINUED USE</i> <i>(12/29/99)</i>
CAT II 9.3.48	WIRE ROPE CUTTER, HYDRAULIC, COMMERCIALY AVAILABLE IAW NAVSEA DWG 5366567 APL 990010035, NSN: 9Q- 5130-01-212- 5492	H. K. PORTER	MODEL 36262N	
CAT II 9.3.49	MK 21 WELDING LENS, 9C-4220-01-408-1665	DIVING SYSTEMS INTERNATIONAL	DSI PART # 525-403	
CAT II (GENERAL)	HYDRAULIC HOSES COMMERCIAL OR NSN COMPONENTS	VARIOUS	VARIOUS PN's	HOSES REQUIRE FITTINGS AND QUICK DISCONNECTS. SEE NAVSEA S6430-AE-TED- 010, "TECHNICAL DIRECTIVE FOR PIPING DEVICES, FLEXIBLE HOSE ASSEMBLIES," DTD 15 JUL 96.
CAT II 9.3.50	HIGH-PRESSURE UMBILICAL COMMERCIALY AVAILABLE	VARIOUS	10' SYNFLEX 3VIV-04-106-106-120; 100' SYNFLEX 3VIV-04-106-1200	1/4", 10,000 PSIG
CAT II 9.3.51	HOSE, NON METALLIC, COMMERCIALY AVAILABLE, NSN: 9C 4720-00-288-9873	VARIOUS	WIRE RE-INFORCED MIL-H-24135	3/4" X 15', 2,000 PSIG. HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE. DRAWING CALLS FOR 15 FOOT INCREASING THE LENGTH OF ANY DIA.HOSE WILL AFFECT PERFORMANCE RELATIVE TO THE ORIGINAL LENGTH.

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9.3 Tools (Continued)

CAT II 9.3.52	PRIMARY UMBILICAL TWIN LINED, COMMERCIALY AVAILABLE	AEROQUIP	KEVLAR POLYESTER FC375-12	3/4" DIAMETER, LENGTH TO SUIT, 2000 PSIG; ITEM MAY BE SUBSTITUTED WITH HOSES MEETING SAE 100R8 SPECIFICATION. QUICK DISCONNECT COUPLINGS MUST BE COMPATIBLE WITH QUICK DISCONNECT COUPLINGS LISTED ON NAVSEA DWG 5366582.
CAT II 9.3.53	REEL ASSEMBLY, HOSE COMMERCIALY AVAILABLE, & NSN: 9C- 4930-01-173-8729 P/N 750027-102-100	VARIOUS	NAVSEA DWG: 6697744	TWIN HOSE SETS PER REEL: (2) 3/4 IN DIAMETER X 75 FT (1) 3/4 IN DIAMETER X 50 FT (1) 3/4 IN DIAMETER X 150 FT
CAT II 9.3.54	TOOL WHIP HOSE, NON- METALLIC, COMMERCIALY AVAILABLE, NSN: 9C-4720-00-967-8997	AEROQUIP	MIL-M-24135 AEROQUIP 2651-8	1/2 IN DIAMETER X 10 FT, 2000 PSIG; HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE.
CAT II 9.3.55	TOOL WHIP HOSE, THERMOPLASTIC COMMERCIALY AVAILABLE	AEROQUIP	AEROQUIP FC373-8	1/2 IN DIAMETER X 10 FT, 2000 PSIG; HOSES OF LONGER LENGTHS ARE PERMISSIBLE. NOTE: INCREASING HOSE LENGTHS WILL RESULT IN ADDITIONAL HYDRAULIC PRESSURE LOSS AND MAY IMPEDE HYDRAULIC TOOL PERFORMANCE. ITEM MAY BE SUBSTITUTED WITH HOSES MEETING SAE 100R7 OR SAE 100R8 SPECIFICATION.
CAT II 9.3.56	REEL ASSEMBLY, HOSE, COMMERCIALY AVAILABLE	VARIOUS	NAVSEA DWG: 5366582	

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